COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 25.10.1996
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Proposal for a

EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE

amending for the 17th time Directive 76/769/EEC on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations

(presented by the Commission)

EXPLANATORY MEMORANDUM

1. INTRODUCTION AND CONTEXT

European Parliament and Council Directive 94/60/EC[1] amending for the 14th time of Directive 76/769/EEC[2] (on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations) adds a list of substances classified as category 1 or 2 carcinogens, mutagens or substances toxic to reproduction (c/m/r) to Annex I of Directive 76/769/EEC. It stipulates that these substances may not be used in substances or preparations placed on the market for sale to the general public. The c/m/r-classification of these substances has been defined in Annex I of Directive 67/548/EEC[3] on classification, packaging and labelling of dangerous substances. This Annex is regularly updated by way of adaptation to technical progress.

Directive 94/60/EC also imposes on the Commission the obligation to submit further proposals to the European Parliament and Council to add additional c/m/r substances to Annex I of Directive 76/769 no later than six months after the publication of new classifications as c/m/r (categories 1 and 2) in the framework of Council Directive 67/548/EEC. Two Commission Directives have added new c/m/r-substances to Annex I of Council Directive 67/548/EEC to since publication of Directive 94/60/EC viz Directive 93/101/EC[4] (twentieth adaptation) and Directive 94/69/EC[5] (twenty first adaptation).

Directive 93/101/EC contains three substances classified as category 2 carcinogens, one of which is also classified as category 2 mutagen.

Directive 94/69/EC was adopted in 1994, but published for technical reasons only in May 1995. It contains about 800 substances mainly classified as category 2 carcinogens. These substances are mainly complex oil and coal derivatives, which are classified as carcinogens only if the concentration of a *marker substance* is exceeded. The conditions for classification as carcinogen on the basis of the *marker substances* are presented in Annex I of Directive 67/548/EEC by notas from J to P.

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1 OJ No L 365, 31.12.1994, p. 1.

2 OJ No L 262, 27.9.1976, p. 201, Directive as last amended by Directive 94/60/EC (OJ No L 365, 31.12.1994, p.1).

3 OJ No 196, 16.8.1967, p. 1/67, Directive as last amended by Commission Directive 94/69/EC (OJ No L 381, 31.12.1994, p.1).

4 OJ No L 13, 15.1.1994, p. 13.

5 OJ No L 381, 31.12.1994, p. 1.

2. JUSTIFICATION FOR PROPOSAL AND CONSIDERATIONS OF SUBSIDIARITY

What are the objectives of the proposal in relation to the Community's obligations ?

In the context of the programme 'Europe against cancer' an action plan has been launched by the Council (Decisions 90/238/Euratom, ECSC, EEC[6] and 93/362/EEC[7]) to focus the attention on substances and preparations considered to be carcinogens. Due to the fact that use of chemicals by consumers cannot be controlled safety can only be ensured by prohibiting use by consumers of c/m/r substances and preparations. Following the adoption of the Directive 94/60/EC the Commission is required to propose Directives prohibiting use by consumers of substances newly classified as c/m/r categories 1 or 2.

The objectives of the proposal are to preserve the Internal Market and to protect the health of the consumers.

Does the initiatives arise out of an exclusive Community competence or a shared competitiveness?

The action to preserve the Internal Market for dangerous substances falls within the exclusive competence of the Community. This competence was established by Council Directive 76/769/EEC.

What are the courses of action available to the Community?

The only course of action available is a proposal for an amendment to Directive 76/769/EEC, the seventeenth amendment, providing for harmonised rules on the use of substances and preparations classified as category 1 or 2 c/m/r's.

Are uniform rules necessary? Is it not sufficient to establish targets to be implemented by Member States?

The proposed 17th amendment establishes uniform rules for the circulation of substances and preparations classified as c/m/r. It also guarantees high level of protection of health and safety of consumers. The proposed 17th amendment is the only way to meet these goals. Targets would be insufficient.

3. RATIONALE OF THE PROPOSAL

The proposed 17th amendment would extend and consolidate the list of c/m/r substances in Annex I to Directive 76/769 by adding the substances classified as c/m/r category 1 or category 2 by consumers in the 20th and 21st adaptations to technical progress of Directive 67/548/EEC. Use of all these substances is thus prohibited.

According to Directive 94/60/EC the c/m/r substances already covered by Directive 76/769/EEC and by the first thirteen amendments to that Directive are not included in the

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6 OJ No L 137, 30.5.1990, p. 31.

7 OJ No L 150, 22.6.1993, p. 43.

consolidated list. The Commission will make a separate proposal for adaptation to technical progress according to Article 2 a of Directive 76/769/EEC to ban the use of these substances by consumers.

4. COSTS AND BENEFITS

4.1 Costs

The three substances classified as carcinogens in Directive 93/101/EC being "new substances" have to date not been placed on the market for consumer use.

Most of the complex oil derivatives, which are classified as carcinogens in the 21st adaptation to technical progress of Directive 67/548/EEC, are not in fact placed on the market for consumer use as carcinogens (according to notas J to P). In practice the concentration of the *marker substance* is not exceeded as the supplying industry already wants to avoid that preparations are classified as carcinogens and have to be labelled accordingly.The substances concerned are used only in the industrial processes and the industries concerned do not anticipate that the proposal to ban consumer uses will entail significant costs.

An estimated 20 000 tonnes of complex coal derivatives (classified as carcinogens by the 21st adaptation) are marketed to consumers as *special pitch.* Other types of tar products sold to the general public are *Black Tar Varnishes and Paints, Barn Tar- and Painting Tar*-materials generally used for painting water tanks, corrugated steel sheets, gutters, etc. *Tar emulsions* are used to repair driveways, to fill cracks and to give fuel resistance. *Caulking Pitch* is used to repair boats, e.g. by filling seams. Consumers also use minor amounts of *Fishnet tar* for waterproofing.

The producers of complex coal derivatives and preparations containing these do not see ban on consumer use provided by the proposed Directive as causing any major problems to the tar industry.

It is proposed, furthermore, to ban consumer use of two pigments (CI Pigment Yellow 34 and CI Pigment Red 104) because of their effects on reproduction. These pigments, however, are not used by consumers so as to no costs to the industry are implied.

4.2 Benefits

The proposed ban will ensure that the carcinogenic substances and preparations are not placed on the market for consumer use either now or in the future. The benefit of the proposal is to protect the health of consumers.

5. PROPORTIONALITY

The 17th amendment would yield benefits in terms of protecting the health of consumers. This would be achieved at modest cost.

6. CONSULTATIONS PERFORMED IN PREPARING THE DRAFT 17TH AMENDMENT

Advice on the preparation of the proposal was sought through 2 meetings involving experts from Member States and industry. Industry, represented by CONCAWE (the Oil Companies European Organization for Environment, Health and Safety), by the International Tar Association and CEFIC (European Chemical Industry Council) did not oppose the proposal.

7. CONFORMITY WITH THE TREATY

This proposal is intended to facilitate a high level of protection of health of the consumers and is therefore in conformity with Article 100 A § 3 of the Treaty.

The proposal does not call for any special provisions of the kind referred to in Article 7 c of the Treaty.

It is in conformity with Article 3 b.

8. CONSULTATION OF THE EUROPEAN PARLIAMENT AND THE ECONOMIC AND SOCIAL COMMITTEE

In compliance with Article 100 A of the Treaty, the Codecision Procedure with the European Parliament is applicable. The Economic and Social Committee has to be consulted.

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Proposal for a European Parliament and Council Directive amending for the 17th time Directive 76/769/EEC on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article 100 a thereof,

Having regard to the proposal from the Commission ([1]),

Having regard to the opinion of the Economic and Social Comittee ([2]),

Acting in accordance with the procedure referred to in Article 189 b of the Treaty ([3]),

Whereas measures should be adopted for the achievement of the internal market; whereas the internal market is an area without internal frontiers in which the free movement of goods, persons, services and capital is guaranteed;

Whereas work on the internal market should also gradually improve the quality of life, health protection and consumer safety; whereas the measures proposed by this Directive are in line with the Council resolution of 9 November 1989 on future priorities for relaunching consumer protection policy ([4]);

Whereas the Council and the Representatives of the Governments of the Member States, meeting within the Council, adopted Decision 90/238/Euratom, ECSC, EEC ([5]) concerning a 1990 to 1994 action plan in the context of the 'Europe against Cancer' programme; whereas the Council has decided on the continuation of this action plan by the Decision 93/362/EEC ([6]).

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[1] OJ No C
[2] OJ NO C
[3] Opinion of the European Parliament of ....
[4] OJ No C 294, 23.11.1989, p. 1.
[5] OJ No L 137, 30.5.1990, p. 31.
[6] OJ No L 150, 22.6.1993, p. 43.

Whereas to improve health protection and consumer safety substances classified as carcinogenic, mutagenic or toxic to reproduction and preparations containing them should not be placed on the market for use by the general public;

Whereas the European Parliament and Council Directive 94/60/EC ([7]) of 20 December 1994 amending for the 14th time Directive 76/769/EEC ([8]) on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations introduces a list in the form of an appendix to points 29, 30 and 31 of Annex I to Directive 76/769/EEC containing substances classified as carcinogenic, mutagenic or toxic to reproduction of category 1 or 2, which may not be used in substances and preparations placed on the market for sale to the general public;

Whereas Directive 94/60/EC requires that the Commission presents to the European Parliament and Council a proposal to extend this list within six months after publication of an adaptation to technical progress if Annex I to Directive 67/548/EEC ([9]) containing substances classified as carcinogenic, mutagenic or toxic to reproduction of category 1 or 2;

Whereas the risks and advantages of the substances newly classified as carcinogenic, mutagenic and toxic to reproduction of category 1 or 2 have been considered.

Whereas the Commission Directive 93/101/EC ([10]) of 11 November 1993 adapting to technical progress for the 20th time Annex I to Council Directive 67/548/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances and the Commission Directive 94/69/EC ([11]) of 19 December 1994 adapting the same Annex to technical progress for the 21st time contain over 800 substances newly classified as carcinogenic, mutagenic or toxic to reproduction of category 1 or 2; whereas these substances should be added to the appendix to points 29, 30 and 31 of Annex I to Directive 76/769/EEC.

Whereas for reasons of transparency and clarity the appendix to points 29, 30 and 31 of Annex I to Directive 76/769/EEC should be replaced by a consolidated appendix to these points;

Whereas this Directive does not affect Community legislation laying down minimum requirements for the protection of workers contained in Council Directive 89/391/EEC ([12]) and individual directives based thereon, in particular Directive 90/394/EEC ([13]),

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[7] OJ No L 365, 31.12.1994, p. 1.
[8] OJ No L 262, 27.9.1976, p. 201, Directive as last amended by Directive 94/60/EC (OJ No L 365, 31.12.1994, p.1)
[9] OJ No 196, 16.8.1967, p. 1/67, Directive as last amended by Commission Directive 94/69/EC (OJ No L 381, 31.12.1994, p.1)
[10] OJ No L 13, 15.1.1994, p. 13.
[11] OJ No L 381, 31.12.1994, p. 1.
[12] OJ NO L 183, 29.6.1989, p. 1.
[13] OJ No L 196, 26.7.1990, p. 1.

HAVE ADOPTED THIS DIRECTIVE:

Article 1

The appendix to points 29, 30 and 31 of Annex I to Directive 76/769/EEC is replaced by the Annex to this Directive.

Article 2

1. Member States shall adopt and publish the laws, regulations and administrative provisions necessary to comply with this Directive no later than one year after the date of its adoption and shall forthwith inform the Commission thereof.

They shall apply these provisions as from 1 March 1999.

2. When Member States adopt these measures, they shall contain a reference to this Directive or shall be accompanied by such reference to the occasion of their official publication. The methods of making such reference shall be laid down by Member States.

Article 3

This Directive is addressed to the Member States.

Annex

APPENDIX

Foreword

Explanations of headings of columns

Name of the substance:
The name is the same as used for the substance in Annex I of the Directive 67/548/EEC on classification, packaging and labelling of dangerous substances. Whenever possible dangerous substances are designated by their Einecs (European Inventory of Existing Commercial Chemical Substances) or Elincs (European List of Notified Chemical Substances) names. Other entries not listed in Einecs or Elincs are designated using an internationally recognized chemical name (e.g. ISO, IUPAC). An additional common name is included in some cases.

Index number:
The index number is the identification code given to the substance in Annex I of Directive 67/548/EEC. Substances are listed in the Appendix according to this index number.

EEC-number:
In the European Inventory of Existing Commercial Chemical Substances (Einecs) an identification code has been defined for the substance. The code starts at 200-001-8.

For new substances notified under the Directive 67/548/EEC an identification code has been defined and published in the European List of Notified Chemical Substances (Elincs). The code starts at 400-010-9.

CAS-number:
Chemical Abstracts Service (CAS) number has been defined for substances to help in their identification.

Notas:
The full text of the notas can be found in the foreword of Annex I of Directive 67/548/EEC.

Notas for the purposes of this Directive are defined as follows:

Nota J:
The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7).

Nota K:
The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (Einecs No 203-450-8).

Nota L:
The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

Nota M:
The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,005 % w/w benzo[a]-pyrene (Einecs No 200-028-5).

Nota N:
The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.

Nota P:
The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7).

Substances	Index number	EEC number	CAS number	Notas
chromium trioxide	024-001-00-0	215-607-8	1333-82-0	
zinc chromates including zinc potassium chromate	024-007-00-3			
bis (chloromethyl) ether	603-046-00-5	208-832-8	542-88-1	
chlormethyl methyl ether; chlorodimethyl ether	603-075-00-3	203-480-1	107-30-2	
Tar, coal; Coal tar [The by-product from the destructive distillation of coal. Almost black semisolid. A complex combination of aromatic hydro-carbons, phenolic compounds, nitrogen bases and thiophene.]	648-081-00-7	232-361-7	8007-45-2	
Tar, coal, high-temp.; Coal tar [The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700°C (1292°F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons. May contain minor amounts of phenolic compounds and aromatic nitrogen bases.]	648-082-00-2	266-024-0	65996-89-6	
Tar, coal, low-temp.; Coal oil [The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in low temperature (less than 700°C (1292°F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of condensed ring aromatic hydrocarbons, phenolic compounds, aromatic nitrogen bases, and their alkyl derivatives.]	648-083-00-8	266-025-6	65996-90-9	
Tar brown-coal; [An oil distilled from brown-coal tar. Composed primarily of aliphatic, naphthenic and one- to three-ring aromatic hydrocarbons, their alkyl derivates, heteroaromatics and one- and two-ring phenols boiling in the range of approximately 150°C to 360°C (302°F to 680°F).]	648-145-00-4	309-885-0	101316-83-0	
Tar, brown-coal, low-temp.; [A tar obtained from low temperature carbonization and low temperature gasification of brown coal. Composed primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons, heteroaromatic hydrocarbons and cyclic phenols.]	648-146-00-X	309-886-6	101316-84-1	
Coke (coal tar), high temperature pitch	648-157-00-X		140203-12-9	
Coke (coal tar), mixed coal-high temperature pitch	648-158-00-5		140203-13-0	
Coke (coal tar) low temperature, high temperature pitch	648-159-00-0		140413-61-2	
Distillates (petroleum), light paraffinic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains a relatively large proportion of saturated aliphatic hydrocarbons normally present in this distillation range of crude oil.]	649-050-00-0	265-051-5	64741-50-0	

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), heavy paraffinic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C). It contains a relatively large proportion of saturated aliphatic hydrocarbons.]	649-051-00-6	265-052-0	64741-51-1	
Distillates (petroleum), light naphthenic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-052-00-1	265-053-6	64741-52-2	
Distillates (petroleum), heavy naphthenic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-053-00-7	265-054-1	64741-53-3	
Distillates (petroleum), acid-treated heavy naphthenic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-054-00-2	265-117-3	64742-18-3	
Distillates (petroleum), acid-treated light naphthenic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-055-00-8	265-118-9	64742-19-4	
Distillates (petroleum), acid-treated heavy paraffinic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil having a viscosity of a least 100 SUS at 100°F (19 cSt at 40°C).]	649-056-00-3	265-119-4	64742-20-7	
Distillates (petroleum), acid-treated light paraffinic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil having a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C).]	649-057-00-9	265-121-5	64742-21-8	
Distillates (petroleum), chemically neutralized heavy paraffinic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons obtained from a treating process to remove acidic materials. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C). It contains a relatively large proportion of aliphatic hydrocarbons.]	649-058-00-4	265-127-8	64742-27-4	

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), chemically neutralized light paraffinic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity less than 100 SUS at 100°F (19 cSt at 40°C).]	649-059-00-X	265-128-3	64742-28-5	
Distillates (petroleum), chemically neutralized heavy naphthenic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-060-00-5	265-135-1	64742-34-3	
Distillates (petroleum), chemically neutralized light naphthenic; Unrefined or mildly refined baseoil [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS a 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-061-00-0	265-136-7	64742-35-4	
erionite	650-012-00-0		12510-42-8	

Substances	Index number	EEC number	CAS number	Notas
beryllium	004-001-00-7	231-150-7	7440-41-7	
beryllium compounds with the exception of aluminium beryllium silicates	004-002-00-2			
sulfallate (ISO); 2-chlorallyl diethyldithiocarbamate	006-038-00-4	202-388-9	95-06-7	
dimethylcarbamoyl chloride	006-041-00-0	201-208-6	79-44-7	
diazomethane	006-068-00-8	206-382-7	334-88-3	
hydrazine	007-008-00-3	206-114-9	302-01-2	
N,N-dimethylhydrazine	007-012-00-5	200-316-0	57-14-7	
1,2-dimethylhydrazine	007-013-00-0		540-73-8	
salts of hydrazine	007-014-00-6			
hydrazobenzene; 1,2-diphenylhydrazine	007-021-00-4	204-563-5	122-66-7	
hydrazine bis(3-carboxy-4-hydroxybenzensulfonate)	007-022-00-X	405-030-1		
hexamethylphosphoric triamide; hexamethylphosphoramide	015-106-00-2	211-653-8	680-31-9	
dimethyl sulphate	016-023-00-4	201-058-1	77-78-1	
diethyl sulphate	016-027-00-6	200-589-6	64-67-5	
1,3-propanesultone	016-032-00-3	214-317-9	1120-71-4	
dimethylsulfamoylchloride	016-033-00-9	236-412-4	13360-57-1	
calcium chromate	024-008-00-9	237-366-8	13765-19-0	
strontium chromate	024-009-00-4	232-142-6	7789-06-2	
chromium III chromate; chromic chromate	024-010-00-X	246-356-2	24613-89-6	
potassium bromate	035-003-00-6	231-829-8	7758-01-2	
butane [1] and isobutane [2] (containing ≥ 0.1% butadiene (203-450-8))	601-004-01-8	203-448-7[1] 200-857-2[2]	106-97-8 [1] 75-28-5 [2]	
1,3-butadiene; buta-1,3-diene	601-013-00-X	203-450-8	106-99-0	
benzo[a]pyrene; benzo[d,e,f]chrysene	601-032-00-3	200-028-5	50-32-8	
benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	

Substances	Index number	EEC number	CAS number	Notas
benzo[b]fluoranthene; benzo[e]acephenanthrylene	601-034-00-4	205-911-9	205-99-2	
benzo[j]fluoranthene	601-035-00-X	205-910-3	205-82-3	
benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	
dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	
1,2-dibromoethane; ethylene dibromide	602-010-00-6	203-444-5	106-93-4	
1,2-dichloroethane; ethylene dichloride	602-012-00-7	203-458-1	107-06-2	
1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	
α,α,α-trichlorotoluene; benzotrichloride	602-038-00-9	202-634-5	98-07-7	
1,3-dichloro-2-propanol	602-064-00-0	202-491-9	96-23-1	
hexachlorobenzene	602-065-00-6	204-273-9	118-74-1	
1,4-dichlorobut-2-ene	602-073-00-X	212-121-8	764-41-0	
ethylene oxide; oxirane	603-023-00-X	200-849-9	75-21-8	
1-chloro-2,3-epoxypropane; epichlorhydrin	603-026-00-6	203-439-8	106-89-8	
propylene oxide; 1,2-epoxypropane; methyloxirane	603-055-00-4	200-879-2	75-56-9	
styrene oxide; (epoxyethyl)benzene; phenyloxirane	603-084-00-2	202-476-7	96-09-3	
4-amino-3-fluorophenol	604-028-00-X	402-230-0	399-95-1	
3-propanolide; 1,3-propiolactone	606-031-00-1	200-340-1	57-57-8	
urethane (INN); ethyl carbamate	607-149-00-6	200-123-1	51-79-6	
methyl acrylamidomethoxyacetate (containing ≥ 0,1 % acrylamid)	607-190-00-X	401-890-7	77402-03-0	
methyl acrylamidoglycolate (containing ≥ 0,1 % acrylamide)	607-210-00-7	403-230-3	77402-05-2	
acrylonitrile	608-003-00-4	203-466-5	107-13-1	
2-nitropropane	609-002-00-1	201-209-1	79-46-9	
5-nitroacenaphthene	609-037-00-2	210-025-0	602-87-9	
2-nitronaphthalene	609-038-00-8	209-474-5	581-89-5	

Substances	Index number	EEC number	CAS number	Notas
4-nitrobiphenyl	609-039-00-3	202-204-7	92-93-3	
nitrofen (ISO); 2,4-dichlorophenyl 4-nitrophenyl ether	609-040-00-9	217-406-0	1836-75-5	
2-nitroanisole	609-047-00-7	202-052-1	91-23-6	
methyl-ONN-azoxymethyl acetate; methyl azoxy methyl acetate	611-004-00-2	209-765-7	592-62-1	
disodium {5-[(4'-((2,6-hydroxy-3-((2-hydroxy-5-sulphophenyl)azo)phenyl)azo)(1,1'-biphenyl)-4-yl)azo]salicylato(4-)} cuprate(2-); CI Direct Brown 95	611-005-00-8	240-221-1	16071-86-6	
4-o-tolylazo-o-toluidine; 4-amino-2',3-dimethylazobenzene; fast garnet GBC base; AAT; o-aminoazotoluene	611-006-00-3	202-591-2	97-56-3	
4-aminoazobenzene	611-008-00-4	200-453-6	60-09-3	
2-methoxyaniline; o-anisidine,	612-035-00-4	201-963-1(o)	90-04-0	
4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline	612-051-00-1	202-974-4	101-77-9	
N-nitrosodimethylamine; dimethylnitrosamine	612-077-00-3	200-549-8	62-75-9	
2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)	612-078-00-9	202-918-9	101-14-4	
salts of 2,2'-dichloro-4,4-methylenedianiline; salts of 4,4'-methylenebis(2-chloroaniline)	612-079-00-4			
1-methyl-3-nitro-1-nitrosoguanidine	612-083-00-6	200-730-1	70-25-7	
4,4'-methylenedi-o-toluidine	612-085-00-7	212-658-8	838-88-0	
2,2'-(nitrosoimino)bisethanol	612-090-00-4	214-237-4	1116-54-7	
o-toluidine	612-091-00-X	202-429-0	95-53-4	
nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7	
4-methyl-m-phenylenediamine	612-099-00-3	202-453-1	95-80-7	
ethyleneimine; aziridine	613-001-00-1	205-793-9	151-56-4	
2-methylaziridine; propyleneimine	613-033-00-6	200-878-7	75-55-8	
captafol (ISO); 1,2,3,6-tetrahydro-N-(1,1,2,2-tetrachloroethylthio)phthalimide	613-046-00-7	219-363-3	2425-06-1	
carbadox (INN); methyl 3-(quinoxalin-2-ylmethylene)carbazate 1,4-dioxide; 2-(methoxycarbonylhydrazonomethyl) quinoxaline 1,4-dioxide	613-050-00-9	229-879-0	6804-07-5	
acrylamide	616-003-00-0	201-173-7	79-06-1	

Substances	Index number	EEC number	CAS number	Notas
thioacetamide	616-026-00-6	200-541-4	62-55-5	
Distillates (coal tar), benzole fraction;LightOil [A complex combination of hydrocarbons obtained by the distillation of coal tar. It consists of hydrocarbons having carbon numbers primarily in the range of C4 to C10 and distilling in the approximate range of 80°C to 160°C (175°F to 320°F).]	648-001-00-0	283-482-7	84650-02-2	
Tar oils, brown-coal;LightOil [The distillate from lignite tar boiling in the range of approximately 80°C to 250°C (176°F to 482°F). Composed primarily of aliphatic and aromatic hydrocarbons and monobasic phenols.]	648-002-00-6	302-674-4	94114-40-6	J
Benzol forerunnings (coal);LightOil Redistillate, low boiling [The distillate from coke oven light oil having an approximate distillation range below 100°C (212°F). Composed primarily of C4 to C6 aliphatic hydrocarbons.]	648-003-00-1	266-023-5	65996-88-5	J
Distillates (coal tar), benzole fraction, BTX-rich;LightOil Redistillate, low boiling [A residue from the distillation of crude benzole to remove benzole fronts. Composed primarily of benzene, toluene and xylenes boiling in the range of approximately 75°C to 200°C (167°F to 392°F).]	648-004-00-7	309-984-9	101896-26-8	J
Aromatic hydrocarbons, C6-10, C8-rich;LightOil Redistillate, low boiling	648-005-00-2	292-697-5	90989-41-6	J
Solvent naphtha (coal), light;LightOil Redistillate, low boiling	648-006-00-8	287-498-5	85536-17-0	J
Solvent naphtha (coal), xylene-styrene cut;LightOil Redistillate, intermediate boiling	648-007-00-3	287-502-5	85536-20-5	J
Solvent naphtha (coal), coumarone-styrene contg.;LightOil Redistillate, intermediate boiling	648-008-00-9	287-500-4	85536-19-2	J
Naphtha (coal), distn. residues;LightOil Redistillate, high boiling [The residue remaining from the distillation of recovered naphtha. Composed primarily of naphthalene and condensation products of indene and styrene.]	648-009-00-4	292-636-2	90641-12-6	J
Aromatic hydrocarbons, C8;LightOil Redistillate, high boiling	648-010-00-X	292-694-9	90989-38-1	J
Aromatic hydrocarbons, C8-10;LightOil Redistillate, high boiling	648-011-00-5	292-695-4	90989-39-2	J
Aromatic hydrocarbons, C8-9, hydrocarbon resin polymn. by-product;LightOil Redistillate, high boiling [A complex combination of hydrocarbons obtained from the evaporation of solvent under vacuum from polymerized hydrocarbon resin. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C9 and boiling in the range of approximately 120°C to 215°C (248°F to 419°F).]	648-012-00-0	295-281-1	91995-20-9	J
Aromatic hydrocarbons, C9-12, benzene distn.;LightOil Redistillate, high boiling	648-013-00-6	295-551-9	92062-36-7	J
Extract residues (coal), benzole fraction alk., acid ext.;LightOil Extract Residues, low boiling [The redistillate from the distillate, freed of tar acids and tar bases, from bituminous coal high temperature tar boiling in the approximate range of 90°C to 160°C (194 F to 320°F). It consists predominantly of benzene, toluene and xylenes.]	648-014-00-1	295-323-9	91995-61-8	J

Substances	Index number	EEC number	CAS number	Notas
Extract residues (coal tar), benzole fraction alk., acid ext.;LightOil Extract Residues, low boiling [A complex combination of hydrocarbons obtained by the redistillation of the distillate of high temperature coal tar (tar acid and tar base free). It consists predominantly of unsubstituted and substituted mononuclear aromatic hydrocarbons boiling in the range of 85°C-195°C (185°F-383°F).]	648-015-00-7	309-868-8	101316-63-6	J
Extract residues (coal), benzole fraction acid;LightOil Extract Residues, low boiling [An acid sludge by-product of the sulphuric acid refining of crude high temperature coal. Composed primarily of sulfuric acid and organic compounds.]	648-016-00-2	298-725-2	93821-38-6	J
Extract residues (coal), light oil alk., distn. overheads;LightOil Extract Residues, low boiling [The first fraction from the distillation of aromatic hydrocarbons, coumarone, naphthalene and indene rich prefactionator bottoms or washed carbolic oil boiling substantially below 145°C (293°F). Composed primarily of C7 and C8 aliphatic and aromatic hydrocarbons.]	648-017-00-8	292-625-2	90641-02-4	J
Extract residues (coal), light oil alk., acid ext., indene fraction;LightOil Extract Residues, intermediate boiling	648-018-00-3	309-867-2	101316-62-5	J
Extract residues (coal), light oil alk., indene naphtha fraction;LightOil Extract Residues, high boiling [The distillate from aromatic hydrocarbons, coumarone, naphthalene and indene rich prefractionator bottoms or washed carbolic oils, having an approximate boiling range of 155°C to 180°C (311°F to 356°F). Composed primarily of indene, indan and trimethylbenzenes.]	648-019-00-9	292-626-8	90641-03-5	J
Solvent naphtha (coal);LightOil Extract Residues, high boiling [The distillate from either high temperature coal tar, coke oven light oil, or coal tar oil alkaline extract residue having an approximate distillation range of 130°C to 210°C (266°F to 410°F) Composed primarily of indene and other polycyclic ring systems containing a single aromatic ring.May contain phenolic compounds and aromatic nitrogen bases.]	648-020-00-4	266-013-0	65996-79-4	J
Distillates (coal tar), light oils, neutral fraction;LightOil Extract Residues, high boiling [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of alkyl-substituted one ring aromatic hydrocarbons boiling in the range of approximately 135°C to 210°C (275°F to 410°F).May also include unsaturated hydrocarbons such as indene and coumarone.]	648-021-00-X	309-971-8	101794-90-5	J
Distillates (coal tar), light oils, acid exts.;LightOil Extract Residues, high boiling [This oil is a complex mixture of aromatic hydrocarbons, primarily indene, naphthalene, coumarone, phenol, and o-, m- and p-cresol and boiling in the range of 140°C to 215°C (284°F to 419°F).]	648-022-00-5	292-609-5	90640-87-2	J
Distillates (coal tar), light oils; CarbolicOil [A complex combination of hydrocarbons obtained by distillation of coal tar. It consists of aromatic and other hydrocarbons, phenolic compounds and aromatic nitrogen compounds and distills at the approximate range of 150°C to 210°C (302°F to 410°F).]	648-023-00-0	283-483-2	84650-03-3	J
Tar oils, coal; CarbolicOil [The distillate from high temperature coal tar having an approximate distillation range of 130°C to 250°C (266°F to 410°F). Composed primarily of naphthalene, alkylnaphthalenes, phenolic compounds, and aromatic nitrogen bases.]	648-024-00-6	266-016-7	65996-82-9	J

Substances	Index number	EEC number	CAS number	Notas
Tar, brown-coal; CarbolicOil [An oil distilled from brown-coal tar. Composed primarily of aliphatic, naphthenic and one- to three-ring aromatic hydrocarbons, their alkyl derivatives, heteroaromatics and one- and two-ring phenols boiling in the range of approximately 150°C to 360°C (302 F to 680°F).]	648-025-00-1	309-885-0	101316-83-0	J
Extract residues (coal), light oil alk., acid ext.; CarbolicOil Extract Residue [The oil resulting from the acid washing of alkali-washed carbolic oil to remove the minor amounts of basic compounds (tar bases). Composed primarily of indene, indan and alkylbenzenes.]	648-026-00-7	292-624-7	90641-01-3	J
Extract residues (coal), tar oil alk.; CarbolicOil Extract Residue [The residue obtained from coal tar oil by an alkaline wash such as aqueous sodium hydroxide after the removal of crude coal tar acids. Composed primarily of naphthalenes and aromatic nitrogen bases.]	648-027-00-2	266-021-4	65996-87-4	J
Extract oils (coal), light oil; Acid Extract [The aqueous extract produced by an acidic wash of alkali-washed carbolic oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]	648-028-00-8	292-622-6	90640-99-6	J
Pyridine, alkyl derivs.; Crude Tar Bases [The complex combination of polyalkylated pyridines derived from coal tar distillation or as high-boiling distillates approximately above 150°C (302°F) from the reaction of ammonia with acetaldehyde, formaldehyde or paraformaldehyde.]	648-029-00-3	269-929-9	68391-11-7	J
Tar bases, coal, picoline fraction; Distillate Bases [Pyridine bases boiling in the range of approximately 125°C to 160°C (257°F 320°F) obtained by distillation of neutralized acid extract of the base-containing tar fraction obtained by the distillation of bituminous coal tars. Composed chiefly of lutidines and picolines.]	648-030-00-9	295-548-2	92062-33-4	J
Tar bases, coal, lutidine fraction; Distillate Bases	648-031-00-4	293-766-2	91082-52-9	J
Extract oils (coal), tar base, collidine fraction; Distillate Bases [The extract produced by the acidic extraction of bases from crude coal tar aromatic oils, neutralization, and distillation of the bases. Composed primarily of collidines, aniline, toluidines, lutidines, xylidines.]	648-032-00-X	273-077-3	68937-63-3	J
Tar bases, coal, collidine fraction; Distillate Bases [The distillation fraction boiling in the range of approximately 181°C to 186°C (356°F to 367°F) from the crude bases obtained from the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of bituminous coal tar. It contains chiefly aniline and collidines.]	648-033-00-5	295-543-5	92062-28-7	J
Tar bases, coal, aniline fraction; Distillate Bases [The distillation fraction boiling in the range of approximately 180°C to 200°C (356°F to 392°F) from the crude bases obtained by dephenolating and debasing the carbolated oil from the distillation of coal tar. It contains chiefly aniline, collidines, lutidines and toluidines.]	648-034-00-0	295-541-4	92062-27-6	J
Tar bases, coal, toluidine fraction; Distillate Bases	648-035-00-6	293-767-8	91082-53-0	J

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), alkene-alkyne manuf. pyrolysis oil, mixed with high-temp. coal tar, indene fraction; Redistillates [A complex combination of hydrocarbons obtained as a redistillate from the fractional distillation of bituminous coal high temperature tar and residual oils that are obtained by the pyrolytic production of alkenes and alkynes from petroleum products or natural gas. It consists predominantly of indene and boils in a range of approximately 160°C to 190°C (320°F to 374°F).]	648-036-00-1	295-292-1	91995-31-2	J
Distillates (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates [The redistillate obtained from the fractional distillation of bituminous coal high temperature tar and pyrolysis residual oils and boiling in the range of approximately 190°C to 270°C (374 F to 518 F). Composed primarily of substituted dinuclear aromatics.]	648-037-00-7	295-295-8	91995-35-6	J
Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oil, redistillate; Redistillates [The redistillate from the fractional distillation of dephenolated and debased methylnaphthalene oil obtained from bituminous coal high temperature tar and pyrolysis residual oils boiling in the approximate range of 220°C to 230°C (428°F to 446°F). It consists predominantly of unsubstituted and substituted dinuclear aromatic hydrocarbons.]	648-038-00-2	295-329-1	91995-66-3	J
Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates [A neutral oil obtained by debasing and dephenolating the oil obtained from the distillation of high temperature tar and pyrolysis residuel oils which has a boiling range of 225°C to 255°C (437°F to 491°F). Composed primarily of substituted dinuclear aromatic hydrocarbons.]	648-039-00-8	310-170-0	122070-79-5	J
Extract oils (coal), coal tar residual pyrolysis oils, naphthalene oil, distn. residues; Redistillates [Residue from the distillation of dephenolated and debased methylnaphthalene oil (from bituminous coal tar and pyrolysis residual oils) with a boiling range of 240°C to 260°C (464°F to 500°F). Composed primarily of substituted dinuclear aromatic and heterocyclic hydrocarbons.]	648-040-00-3	310-171-6	122070-80-8	J
Absorption oils, bicyclo arom. and heterocyclic hydrocarbon fraction; WashOil Redistillate [A complex combination of hydrocarbons obtained as a redistillate from the distillation of wash oil. It consists predominantly of 2-ringed aromatic and heterocyclic hydrocarbons boiling in the range of approximately 260°C to 290°C (500°F to 554°F).]	648-041-00-9	309-851-5	101316-45-4	M
Distillates (coal tar), upper, fluorene-rich; WashOil Redistillate [A complex combination of hydrocarbons obtained by the crystallization of tar oil. It consists af aromatic and polycyclic hydrocarbons primarily fluorene and some acenaphthene.]	648-042-00-4	284-900-0	84989-11-7	M
Creosote oil, acenaphthene fraction, acenaphthene-free; WashOil Redistillate [The oil remaining after removal by a crystallization process of acenaphthene from acenaphthene oil from coal tar. Composed primarily of naphthalene and alkylnaphthalenes.]	648-043-00-X	292-606-9	90640-85-0	M
Distillates (coal tar), heavy oils; Heavy AnthraceneOil [Distillate from the fractional distillation of coal tar of bituminous coal, with boiling range of 240°C to 400°C (464°F to 752°F). Composed primarily of tri- and polynuclear hydrocarbons and heterocyclic compounds.]	648-044-00-5	292-607-4	90640-86-1	

Substances	Index number	EEC number	CAS number	Notas
Anthracene oil, acid ext.; AnthraceneOil Extract Residue [A complex combination of hydrocarbons from the base-freed fraction obtained from the distillation of coal tar and boiling in the range of approximately 325°C to 365°C (617°F to 689°F). It contains predominantly anthracene and phenanthrene and their alkyl derivatives.]	648-046-00-6	295-274-3	91995-14-1	M
Distillates (coal tar); Heavy AnthraceneOil [The distillate from coal tar having an approximate distillation range of 100°C to 450°C (212°F to 842°F). Composed primarily of two to four membered condensed ring aromatic hydrocarbons, phenolic compounds, and aromatic nitrogen bases.]	648-047-00-1	266-027-7	65996-92-1	M
Distillates (coal tar), pitch, heavy oils; Heavy AnthraceneOil [The distillate from the distillation of the pitch obtained from bituminous high temperature tar. Composed primarily of tri- and polynuclear aromatic hydrocarbons and boiling in the range of approximately 300°C to 470°C (572°F to 878°F). The product may also contain heteroatoms.]	648-048-00-7	295-312-9	91995-51-6	M
Distillates (coal tar), pitch; Heavy AnthraceneOil [The oil obtained from condensation of the vapors from the heat treatment of pitch. Composed primarily of two- to four-ring aromatic compounds boiling in the range of 200°C to greater than 400°C (392°F to greater than 752°F).]	648-049-00-2	309-855-7	101316-49-8	M
Distillates (coal tar), heavy oils, pyrene fraction; Heavy AnthraceneOil Redistillate [The redistillate obtained from the fractional distillation of pitch distillate boiling in the range of approximately 350°C to 400°C (662°F to 752°F). Consists predominantly of tri- and polynuclear aromatics and heterocyclic hydrocarbons.]	648-050-00-8	295-304-5	91995-42-5	M
Distillates (coal tar), pitch, pyrene fraction; Heavy AnthraceneOil Redistillate [The redistillate obtained from the fractional distillation of pitch distillate and boiling in the range of approximately 380°C to 410°C (716 to 770°F). Composed primarily of tri- and polynuclear aromatic hydrocarbons and heterocyclic compounds.]	648-051-00-3	295-313-4	91995-52-7	M
Paraffin waxes (coal), brown-coal high-temp. tar, carbon-treated; Coal Tar Extract [A complet combination of hydrocarbons obtained by the treatment of lignite carbonization tar with activated carbon for removal of trace constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]	648-052-00-9	308-296-6	97926-76-6	M
Paraffin waxes (coal), brown-coal high-temp tar, clay-treated; Coal Tar Extract [A complex combination of hydrocarbons obtained by the treatment of lignite carbonization tar with bentonite for removal of trace constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]	648-053-00-4	308-297-1	97926-77-7	M
Pitch;Pitch	648-054-00-X	263-072-4	61789-60-4	M
Pitch, coal tar, high-temp.;Pitch [The residue from the distillation of high temperature coal tar. A black solid with an approximate softening point from 30°C to 180°C (86°F to 356°F). Composed primarily of a complex mixture of three or more membered condensed ring aromatic hydrocarbons.]	648-055-00-5	266-028-2	65996-93-2	

Substances	Index number	EEC number	CAS number	Notas
Pitch, coal tar, high-temp., heat-treated;Pitch [The heat treated residue from the distillation of high temperature coal tar. A black solid with an approximate softening point from 80°C to 180°C (176°F to 356°F). Composed primarily of a complex mixture of three or more membered condensed ring aromatic hydrocarbons.]	648-056-00-0	310-162-7	121575-60-8	M
Pitch, coal tar, high-temp., secondary;Pitch Redistillate [The residue obtained during the distillation of high boiling fractions from bituminous coal high temperature tar and/or pitch coke oil, with a softening point of 140°C to 170°C (284°F to 392°F) according to DIN 52025. Composed primarily of tri- and polynuclear aromatic compounds which also contain heteroatoms.]	648-057-00-6	302-650-3	94114-13-3	M
Residues (coal tar), pitch distn.;Pitch Redistillate [Residue from the fractional distillation of pitch distillate boiling in the range of approximately 400°C to 470°C (752°F to 846°F). Composed primarily of polynuclear aromatic hydrocarbons, and heterocyclic compounds.]	648-058-00-1	295-507-9	92061-94-4	M
Tar, coal, high-temp., distn. and storage residues; Coal Tar Solids Residue [Coke- and ash-containing solid residues that separate on distillation and thermal treatment of bituminous coal high temperature tar in distillation installations and storage vessels. Consists predominantly of carbon and contains a small quantity of hetero compounds as well as ash components.]	648-059-00-7	295-535-1	92062-20-9	M
Tar, coal, storage residues; Coal Tar Solids Residue [The deposit removed from crude coal tar storages. Composed primarily of coal tar and carbonaceous particulate matter.]	648-060-00-2	293-764-1	91082-50-7	M
Tar, coal, high-temp., residues; Coal Tar Solids Residue [Solids formed during the coking of bituminous coal to produce crude bituminous coal high temperature tar. Composed primarily of coke and coal particles, highly aromatized compounds and mineral substances.]	648-061-00-8	309-726-5	100684-51-3	M
Tar, coal, high-temp., high-solids; Coal Tar Solids Residue [The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700°C (1292°F)) destructive distillation of coal. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons with a high solid content of coal-type materials.]	648-062-00-3	273-615-7	68990-61-4	M
Waste solids, coal-tar pitch coking; Coal Tar Solids Residue [The combination of wastes formed by the coking of bituminous coal tar pitch. It consists predominantly of carbon.]	648-063-00-9	295-549-8	92062-34-5	M
Extract residues (coal), brown; Coal Tar Extract [The residue from extraction of dried coal.]	648-064-00-4	294-285-0	91697-23-3	M
Paraffin waxes (coal), brown-coal-high-temp. tar; Coal Tar Extract [A complex combination of hydrocarbons obtained from lignite carbonization tar by solvent crystallisation (solvent deoiling), by sweating or an adducting process. It consists predominantly of straight and branched chain saturated hydrocarbons having carbon numbers predominantly greater than C12.]	648-065-00-X	295-454-1	92045-71-1	M

Substances	Index number	EEC number	CAS number	Notas
Paraffin waxes (coal), brown-coal-high-temp. tar, hydrotreated; Coal Tar Extract [A complex combination of hydrocarbons obtained from lignite carbonization tar by solvent crystallisation (solvent deoiling), by sweating or an adducting process treated with hydrogen in the presence of a catalyst. It consists predominantly of straight and branched chain saturated hydrocarbons having carbon numbers predominantly greater than C12.]	648-066-00-5	295-455-7	92045-72-2	M
Paraffin waxes (coal), brown-coal high-temp tar, silicic acid-treated; Coal Tar Extract [A complex combination of hydrocarbons obtained by the treatment of lignite carbonization tar with silicic acid for removal of trace constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]	648-067-00-0	308-298-7	97926-78-8	M
Tar, coal, low-temp., distn. residues; TarOil, intermediate boiling [Residues from fractional distillation of low temperature coal tar to remove oils that boil in a range up to approximately 300°C (572°F). Composed primarily of aromatic compounds.]	648-068-00-6	309-887-1	101316-85-2	M
Pitch, coal tar, low-temp;Pitch Residue [A complex black solid or semi-solid obtained from the distillation of a low temperature coal tar. It has a softening point within the approximate range of 40°C to 180°C (104°F to 356°F). Composed primarily of a complex mixture of hydrocarbons.]	648-069-00-1	292-651-4	90669-57-1	M
Pitch, coal tar, low-temp., oxidized;Pitch Residue, oxidised [The product obtained by air-blowing, at elevated temperature, low-temperature coal tar pitch. It has a softening-point within the approximate range of 70°C to 180°C (158°F to 356°F). Composed primarily of a complex mixture of hydrocarbons.]	648-070-00-7	292-654-0	90669-59-3	M
Pitch, coal tar, low-temp., heat-treated;Pitch Residue, oxidised;Pitch Residue, heat-treated [A complex black solid obtained by the heat treatment of low temperature coal tar pitch. It has a softening point within the approximate range of 50°C to 140°C (122°F to 284°F). Composed primarily of a complex mixture of aromatic compounds.]	648-071-00-2	292-653-5	90669-58-2	M
Distillates (coal-petroleum), condensed-ring arom; Distillates [The distillate from a mixture of coal and tar and aromatic petroleum streams having an approximate distillation range of 220°C to 450°C (428°F to 842°F). Composed primarily of 3- to 4-membered condensed ring aromatic hydrocarbons.]	648-072-00-8	269-159-3	68188-48-7	M
Aromatic hydrocarbons, C20-28, polycyclic, mixed coal-tar pitch-polyethylene-polypropylene pyrolysis-derived;PyrolysisProducts [A complex combination hydrocarbons obtained from mixed coal tar pitch-polyethylene-polypropylene pyrolysis. Composed primarily of polycyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C28 and having a softening point of 100°C to 220°C (212°F to 428°F) according to DIN 52025.]	648-073-00-3	309-956-6	101794-74-5	M
Aromatic hydrocarbons, C20-28, polycyclic, mixed coal-tar pitch-polyethylene pyrolysis-derived;PyrolysisProducts [A complex combination of hydrocarbons obtained from mixed coal tar pitch-polyethylene pyrolysis. Composed primarily of polycyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C28 and having a softening point of 100°C to 220°C (212°F to 428°F) according to DIN 52025.]	648-074-00-9	309-957-1	101794-75-6	M

Substances	Index number	EEC number	CAS number	Notas
Aromatic hydrocarbons, C20-28, polycyclic, mixed coal-tar pitch-polystyrene pyrolysis-derived;PyrolysisProducts [A complex combination of hydrocarbons obtained from mixed coal tar pitch-polystyrene pyrolysis. Composed primarily of polycyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C28 and having a softening point of 100°C to 220°C (212°F to 428°F) according to DIN 52025.]	648-075-00-4	309-958-7	101794-76-7	M
Pitch, coal tar-petroleum;Pitch Residues [The residue from the distillation of a mixture of coal tar and aromatic petroleum streams. A solid with a softening point from 40°C to 180°C (140°F to 356°F). Composed primarily of a complex combination of three or more membered condensed ring aromatic hydrocarbons.]	648-076-00-X	269-109-0	68187-57-5	M
Phenanthrene, distn. residues; Heavy AnthraceneOil Redistillate [Residue from the distillation of crude phenanthrene boiling in the approximate range of 340°C to 420°C (644°F to 788°F). It consists predominantly of phenanthrene, anthracene and carbazole.]	648-077-00-5	310-169-5	122070-78-4	M
Distillates (coal tar), upper, fluorene-free; WashOil Redistillate [A complex combination of hydrocarbons obtained by the crystallization of tar oil. It consists of aromatic polycyclic hydrocarbons, primarily diphenyl, dibenzofuran and acenaphthene.]	648-078-00-0	284-899-7	84989-10-6	M
Residues (coal tar), creosote oil distn.; WashOil Redistillate [The residue from the fractional distillation of wash oil boiling in the approximate range of 270°C to 330°C (518°F to 626°F). it consists predominantly of dinuclear aromatic and heterocyclic hydrocarbons.]	648-080-00-1	295-506-3	92061-93-3	M
Distillates (coal), coke-oven light oil, naphthalene cut;NaphthaleneOil [The complex combination of hydrocarbons obtained from prefractionation (continuous distillation) of coke oven light oil. It consists predominantly of naphthalene, coumarone and indene and boils above 148°C (298°F).]	648-084-00-3	285-076-5	85029-51-2	J, M
Distillates (coal tar), naphthalene oils, naphthalene-low;NaphthaleneOil Redistillate [A complex combination of hydrocarbons obtained by crystallization of naphthalene oil. Composed primarily of naphthalene, alkyl naphthalenes and phenolic compounds.]	648-086-00-4	284-898-1	84989-09-3	J, M
Distillates (coal tar), naphthalene oil crystn. mother liquor;NaphthaleneOil Redistillate [A complex combination of organic compounds obtained as a filtrate from the crystallization of the naphthalene fraction from coal tar and boiling in the range of approximately 200°C to 230°C (392°F to 446°F). Contains chiefly naphthalene, thionaphthene and alkylnaphthalenes.]	648-087-00-X	295-310-8	91995-49-2	J, M
Extract residues (coal), naphthalene oil, alk.;NaphthaleneOil Extract Residue [A complex combination of hydrocarbons obtained from the alkali washing of naphthalene oil to remove phenolic compounds (tar acids). It is composed of naphthalene and alkyl naphthalenes.]	648-088-00-5	310-166-9	121620-47-1	J, M
Extract residues (coal), naphthalene oil, alk., naphthalene-low;NaphthaleneOil Extract Residue [A complex combination of hydrocarbons remaining after the removal of naphthalene from alkali-washed naphthalene oil by a crystallization process. It is composed primarily of naphthalene and alkyl naphthalenes.]	648-089-00-0	310-167-4	121620-48-2	J, M

Substances	Index number	EEC number	CAS number	Notas
Distillates (coal tar), naphthalene oils, naphthalene-free, alk. exts.;NaphthaleneOil Extract Residue [The oil remaining after the removal of phenolic compounds (tar acids) from drained naphthalene oil by an alkali wash. Composed primarily of naphthalene and alkyl naphthalenes.]	648-090-00-6	292-612-1	90640-90-7	J, M
Extract residues (coal), naphthalene oil alk., distn. overheads;NaphthaleneOil Extract Residue [The distillation from alkali-washed naphthalene oil having an approximate distillation range of 180°C to 220°C (356°F to 428°F). Composed primarily of naphthalene, alkylbenzenes, indene and indan.]	648-091-00-1	292-627-3	90641-04-6	J, M
Distillates (coal tar), naphthalene oils, methylnaphthalene fraction;MethylnaphthaleneOil [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of substituted two ring aromatic hydrocarbons and aromatic nitrogen bases boiling in the range of approximately 225°C to 255°C (437°F to 491°F).]	648-092-00-7	309-985-4	101896-27-9	J, M
Distillates (coal tar), naphthalene oils, indole-methylnaphthalene fraction;MethylnaphthaleneOil [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of indole and methylnaphthalene boiling in the range of approximately 235°C to 255°C (455°F to 491°F).]	648-093-00-2	309-972-3	101794-91-6	J, M
Distillates (coal tar), naphthalene oils, acid exts.;MethylnaphthaleneOil Extract Residue [A complex combination of hydrocarbons obtained by debasing the methylnaphthalene fraction obtained by the distillation of coal tar and boiling in the range of approximately 230°C to 255°C (446°F to 491°F). Contains chiefly 1(2)-methylnaphthalene, naphthalene, dimethylnaphthalene and biphenyl.]	648-094-00-8	295-309-2	91995-48-1	J, M
Extract residues (coal), naphthalene oil alk., distn. residues;MethylnaphthaleneOil Extract Residue [The residue from the distillation of alkali-washed naphthalene oil having an approximate distillation range of 220°C to 300°C (428°F to 572°F). Composed primarily of naphthalene, alkylnaphthalenes and aromatic nitrogen bases.]	648-095-00-3	292-628-9	90641-05-7	J, M
Extract oils (coal), acidic, tar-base free;MethylnaphthaleneOil Extract Residue [The extract oil boiling in the range of approximately 220°C to 265°C (428°F to 509°F) from coal tar alkaline extract residue produced by an acidic wash such as aqueous sulfuric acid after distillation to remove tar bases. Composed primarily of alkylnaphthalenes.]	648-096-00-9	284-901-6	84989-12-8	J, M
Distillates (coal tar), benzole fraction, distn. residues; WashOil [A complex combination of hydrocarbons obtained from the distillation of crude benzole (high temperature coal tar). It may be a liquid with the approximate distillation range of 150°C to 300°C (302°F to 572°F) or a semi-solid or solid with a melting point up to 70°C (158°F). It is composed primarily of naphthalene and alkyl naphthalenes.]	648-097-00-4	310-165-3	121620-46-0	J, M
Creosote oil, high-boiling distillate; WashOil [The high-boiling distillation fraction obtained from the high temperature carbonization of bituminous coal which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillates, removed. It is crystal free at approximately 5°C (41°F).]	648-100-00-9	274-565-9	70321-79-8	J, M

Substances	Index number	EEC number	CAS number	Notas
Extract residues (coal), creosote oil acid; WashOil Extract Residue [A complex combination of hydrocarbons from the base-freed fraction from the distillation of coal tar, boiling in the range of approximately 250°C to 280°C (482°F to 536°F). It consists predominantly of biphenyl and isomeric diphenylnaphthalenes.]	648-102-00-X	310-189-4	122384-77-4	J, M
Anthracene oil, anthracene paste; AnthraceneOil Fraction [The anthracene-rich solid obtained by the crystallization and centrifuging of anthracene oil. It is composed primarily of anthracene, carbazole and phenanthrene.]	648-103-00-5	292-603-2	90640-81-6	J, M
Anthracene oil, anthracene-low; AnthraceneOil Fraction [The oil remaining after the removal, by a crystallization process, of an anthracene-rich solid (anthracene paste) from anthracene oil. It is composed primarily of two, three and four membered aromatic compounds.]	648-104-00-0	292-604-8	90640-82-7	J, M
Residues (coal tar), anthracene oil distn.; AnthraceneOil Fraction [The residue from the fraction distillation of crude anthracene boiling in the approximate range of 340°C to 400°C (644°F to 752°F). It consists predominantly of tri- and polynuclear aromatic and heterocyclic hydrocarbons.]	648-105-00-6	295-505-8	92061-92-2	J, M
Anthracene oil, anthracene paste, anthracene fraction; AnthraceneOil Fraction [A complex combination of hydrocarbons from the distillation of anthracene obtained by the crystallization of anthracene oil from bituminous high temperature tar and boiling in the range of 330°C to 350°C (626°C to 662°C). It contains chiefly anthracene, carbazole and phenanthrene.]	648-106-00-1	295-275-9	91995-15-2	J, M
Anthracene oil, anthracene paste, carbazole fraction; AnthraceneOil Fraction [A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthrancene oil from bituminous coal high temperature tar and boiling in the approximate range of 350°C to 360°C (662°F to 680°F). It contains chiefly anthacene, carbazole and phenanthrene.]	648-107-00-7	295-276-4	91995-16-3	J, M
Anthracene oil, anthracene paste, distn. lights; AnthraceneOil Fraction [A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthracene oil from bituminous light temperature tar and boiling in the range of approximately 290°C to 340°C (554°F to 644°F). It contains chiefly trinuclear aromatics and their dihydro derivatives.]	648-108-00-2	295-278-5	91995-17-4	J, M
Tar oils, coal, low-temp.; TarOil, high boiling [A distillate from low-temperature coal tar. Composed primarily of hydrocarbons, phenolic compounds and aromatic nitrogen bases boiling in the range of approximately 160°C to 340°C (320°F to 644°F).]	648-109-00-8	309-889-2	101316-87-4	J, M
Phenols, ammonia liquor ext.; Alkaline Extract [The combination of phenols extracted, using isobutyl acetate, from the ammonia liquor condensed from the gas evolved in low-temperature (less than 700°C (1292°F)) destructive distillation of coal. It consists predominantly of a mixture of monohydric and dihydric phenols.]	648-111-00-9	284-881-9	84988-93-2	J, M

Substances	Index number	EEC number	CAS number	Notas
Distillates (coal tar), light oils, alk. exts.; Alkaline Extract [The aqueous extract from carbolic oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]	648-112-00-4	292-610-0	90640-88-3	J, M
Extracts, coal tar oil alk.; Alkaline Extract [The extract from coal tar oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]	648-113-00-X	266-017-2	65996-83-0	J, M
Distillates (coal tar), naphthalene oils, alk. exts.; Alkaline Extract [The aqueous extract from naphthalene oil produced by an alkaline wash such as aqueous sodium hydroxid. Composed primarily of the alkali salts of various phenolic compounds.]	648-114-00-5	292-611-6	90640-89-4	J, M
Extract residues (coal), tar oil alk., carbonated, limed; CrudePhenols [The product obtained by treatment of coal tar oil alkaline extract with CO2 and CaO. Composed primarily of CaCO3, Ca(OH)2,Na2CO3 and other organic and inorganic impurities.]	648-115-00-0	292-629-4	90641-06-8	J, M
Tar acids, brown-coal, crude; CrudePhenols [An acidified alkaline extract of brown coal tar distillate. Composed primarily of phenol and phenol homologs.]	648-117-00-1	309-888-7	101316-86-3	J, M
Tar acids, brown-coal gasification; CrudePhenols [A complex combination of organic compounds obtained from brown coal gasification. Composed primarily of C6-10 hydroxy aromatic phenols and their homologs.]	648-118-00-7	295-536-7	92062-22-1	J, M
Tar acids, distn. residues; DistillatePhenols [A residue from the distillation of crude phenol from coal. It consists predominantly of phenols having carbon numbers in the range of C8 through C10 with a softening point of 60°C to 80°C (140°F to 176°F).]	648-119-00-2	306-251-5	96690-55-0	J, M
Tar acids, methylphenol fraction; DistillatePhenols [The fraction of tar acid rich in 3- and 4-methylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]	648-120-00-8	284-892-9	84989-04-8	J, M
Tar acids, polyalkylphenol fraction; DistillatePhenols [The fraction of tar aicds, recovered by distillation of low-temperature coal tar crude tar acids, having an approximate boiling range of 225°C to 320°C (437°F to 608°F). Composed primarily of polyalkylphenols.]	648-121-00-3	284-893-4	84989-05-9	J, M
Tar acids, xylenol fraction; DistillatePhenols [The fraction of tar acids, rich in 2,4- and 2,5-dimethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]	648-122-00-9	284-895-5	84989-06-0	J, M
Tar acids, ethylphenol fraction; DistillatePhenols [The fraction of tar acids, rich in 3- and 4-ethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]	648-123-00-4	284-891-3	84989-03-7	J, M
Tar acids, 3,5-xylenol fraction; DistillatePhenols [The fraction of tar acids, rich in 3,5-dimethylphenol, recovered by distillation of low-temperature coal tar acids.]	648-124-00-X	284-896-0	84989-07-1	J, M

Substances	Index number	EEC number	CAS number	Notas
Tar acids, residues, distillates, first-cut; DistillatePhenols [The residue from the distillation in the range of 235°C to 355°C (481°F to 697°F) of light carbolic oil.]	648-125-00-5	270-713-1	68477-23-6	J, M
Tar acids, cresylic, residues; DistillatePhenols [The residue from crude coal tar acids after removal of phenol, cresols, xylenols and any higher boiling phenols. A black solid with a melting point approximately 80°C (176°F). Composed primarily of polyalkyphenols, resin gums, and inorganic salts.]	648-126-00-0	271-418-0	68555-24-8	J, M
Phenols, C9-11; DistillatePhenols	648-127-00-6	293-435-2	91079-47-9	J, M
Tar acids, cresylic; DistillatePhenols [A complex combination of organic compounds obtained from brown coal and boiling in the range of approximately 200°C to 230°C (392°F to 446°F). It contains chiefly phenols and pyridine bases.]	648-128-00-1	295-540-9	92062-26-5	J, M
Tar acids, brown-coal, C2-alkylphenol fraction; DistillatePhenols [The distillate from the acidification of alkaline washed lignite tar distillate boiling in the range of approximately 200°C to 230°C (392°F to 446°F). Composed primarily of m- and p-ethylphenol as well as cresols and xylenols.]	648-129-00-7	302-662-9	94114-29-1	J, M
Extract oils (coal), naphthalene oils; Acid Extract [The aqueous extract produced by an acidic wash of alkali-washed napthalene oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]	648-130-00-2	292-623-1	90641-00-2	J, M
Tar bases, quinoline derivs.; Distillate Bases	648-131-00-8	271-020-7	68513-87-1	J, M
Tar bases, coal, quinoline derivs. fraction; Distillate Bases	648-132-00-3	274-560-1	70321-67-4	J, M
Tar bases, coal, distn. residues; Distillate Bases [The distillation residue remaining after the distillation of the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of coal tars. It contains chiefly aniline, collidines, quinoline and quinoline derivatives and toluidines.]	648-133-00-9	295-544-0	92062-29-8	J, M
Hydrocarbon oils, arom., mixed with polyethylene and polypropylene, pyrolyzed, light oil fraction; Heat TreatmentProducts [The oil obtained from the heat treatment of a polyethylene/polypropylene mixture with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70°C to 120°C (158°F to 248°F).]	648-134-00-4	309-745-9	100801-63-6	J, M
Hydrocarbon oils, arom., mixed with polyethylene, pyrolyzed, light oil fraction; Heat TreatmentProducts [The oil obtained from the heat treatment of polyethylene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of 70°C to 120°C (158°F to 248°F).]	648-135-00-X	309-748-5	100801-65-8	J, M
Hydrocarbon oils, arom., mixed with polystyrene, pyrolyzed, light oil fraction; Heat TreatmentProducts [The oil obtained from the heat treatment of polystyrene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70°C to 210°C (158°F to 410°F).]	648-136-00-5	309-749-0	100801-66-9	J, M

Substances	Index number	EEC number	CAS number	Notas
Extract residues (coal), tar oil alk., naphthalene distn. residues;NaphthaleneOil Extract Residue [The residue obtained from chemical oil extracted after the removal of naphthalene by distillation composed primarily of two to four membered condensed ring aromatic hydrocarbons and aromatic nitrogen bases.]	648-137-00-0	277-567-8	736665-18-6	J, M
Creosote oil, low-boiling distillate; WashOil [The low-boiling distillation fraction obtained from the high temperature carbonization of bituminous coal, which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillate, removed. It is crystal free at approximately 38°C (100°F).]	648-138-00-6	274-566-4	70321-80-1	J, M
Tar acids, cresylic, sodium salts, caustic solns.; Alkaline Extract	648-139-00-1	272-361-4	68815-21-4	J, M
Extract oils (coal), tar base; Acid Extract [The extract from coal tar oil alkaline extract residue produced by an acidic wash such as aqueous sulfuric acid after distillatin to remove naphthalene. Composed primarily of the acid salts of various aromatic nitrogen bases including pyridine, quinoline, and their alkyl derivatives.]	648-140-00-7	266-020-9	65996-86-3	J, M
Tar bases, coal, crude; Crude Tar Bases [The reaction product obtained by neutralizing coal tar base extract oil with an alkaline solution, such as aqueous sodium hydroxide, to obtain the free bases. Composed primarily of such organic bases as acridine, phenanthridine, pyridine, quinoline and their alkyl derivatives.]	648-141-00-2	266-018-8	65996-84-1	J, M
Residues (coal), liq. solvent extn.; [A cohesive powder composed of coal mineral matter and undissolved coal remaining after extraction of coal by a liquid solvent.]	648-142-00-8	302-681-2	94114-46-2	M
Coal liquids, liq. solvent extn. soln.; [The product obtained by filtration of coal mineral matter and undissolved coal from coal extract solution produced by digesting coal in a liquid solvent. A black, viscous, highly complex liquid combination composed primarily of aromatic and partly hydro-genated aromatic hydrocarbons, aromatic nitrogen compounds, aromatic sulfur compounds, phenolic and other aromatic oxygen compounds and their alkyl derivatives.]	648-143-00-3	302-682-8	94114-47-3	M
Coal liquids, liq. solvent extn.; [The substantially solvent-free product obtained by the distillation of the solvent from filtered coal extract solution produced by digesting coal in a liquid solvent. A black semi-solid, composed primarily of a complex combination of condensed-ring aromatic hydrocarbons, aromatic nitrogen compounds, aromatic sulfur compounds, phenolic compounds and other aromatic oxygen compounds, and their alkyl derivatives.]	648-144-00-9	302-683-3	94114-48-4	M
Light oil (coal), coke-oven; Crude benzole [The volatile organic liquid extracted from the gas evolved in the high temperature (greater than 700°C (1292°F)) destructive distillation of coal. Composed primarily of benzene, toluene, and xylenes.May contain other minor hydrocarbon constituents.]	648-147-00-5	266-012-5	65996-78-3	J

Substances	Index number	EEC number	CAS number	Notas
Distillates (coal), liq. solvent extn., primary; [The liquid product of condensation of vapors emitted during the digestion of coal in a liquid solvent and boiling in the range of approximately 30°C to 300°C (86°F to 572°F). Composed primarily of partly hydrogenated condensed-ring aromatic hydrocarbons, aromatic compounds containing nitrogen, oxygen and sulfur, and their alkyl derivatives having carbon numbers predominantly in the range of C4 through C14.]	648-148-00-0	302-688-0	94114-52-0	J
Distillates (coal), solvent extn., hydrocracked; [Distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction process and boiling in the range of approximately 30°C to 300°C (86°F to 572°F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes with carbon numbers predominantly in the range of C4 through C14.Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.]	648-149-00-6	302-689-6	94114-53-1	J
Naphtha (coal), solvent extn., hydrocracked; [Fraction of the distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30°C to 180°C (86°F to 356°F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes with carbon numbers predominantly in the range of C4 to C9.Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.]	648-150-00-1	302-690-1	94114-54-2	J
Gasoline, coal solvent extn., hydrocracked naphtha; [Motor fuel produced by the reforming of the refined naphtha fraction of the products of hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30°C to 180°C (86°F to 356°F). Composed primarily of aromatic and naphthenic hydrocarbons, their alkyl derivatives and alkyl hydrocarbons having carbon numbers in the range of C4 through C9.]	648-151-00-7	302-691-7	94114-55-3	J
Distillates (coal), solvent extn., hydrocracked middle; [Distillate obtained from the hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180°C to 300°C (356°F to 572°F). Composed primarily of two-ring aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes having carbon numbers predominantly in the range of C9 through C14.Nitrogen, sulfur and oxygen-containing compounds are also present.]	648-152-00-2	302-692-2	94114-56-4	J
Distillates (coal), solvent extn., hydrocracked hydrogenated middle; [Distillate from the hydrogenation of hydrocracked middle distillate from coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180°C to 280°C (356°F to 536°F). Composed primarily of hydrogenated two-ring carbon compounds and their alkyl derivatives having carbon numbers predominantly in the range of C9 through C14.]	648-153-00-8	302-693-8	94114-57-5	J
Light oil (coal), semi-coking process; Fresh oil [The volatile organic liquid condensed from the gas evolved in the low temperature (less than 700°C (1292°F) destructive distillation of coal. Composed primarily of C6-10 hydrocarbons.]	648-156-00-4	292-635-7	90641-11-5	J

Substances	Index number	EEC number	CAS number	Notas
Extracts (petroleum), light naphthenic distillate solvent	649-001-00-3	265-102-1	64742-03-6	
Extracts (petroleum), heavy paraffinic distillate solvent	649-002-00-9	265-103-7	64742-04-7	
Extracts (petroleum), light paraffinic distillate solvent	649-003-00-4	265-104-2	64742-05-8	
Extracts (petroleum), heavy naphthenic distillate solvent	649-004-00-X	265-111-0	64742-11-6	
Extracts (petroleum), light vacuum gas oil solvent	649-005-00-5	295-341-7	91995-78-7	
Hydrocarbons C26-55, arom-rich	649-006-00-0	307-753-7	97722-04-8	
Residues (petroleum), atm. tower; Heavy Fuel oil [A complex residuum from the atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350°C (662°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-008-00-1	265-045-2	64741-45-3	
Gas oils (petroleum), heavy vacuum; Heavy Fuel oil [A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and boiling in the range of approximately 350°C to 600°C (662°F to 1112°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-009-00-7	265-058-3	64741-57-7	
Distillates (petroleum), heavy catalytic cracked; Heavy Fuel oil [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C35 and boiling in the range of approximately 260°C to 500°C (500°F to 932°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-010-00-2	265-063-0	64741-61-3	
Clarified oils (petroleum), catalytic cracked; Heavy Fuel oil [A complex combination of hydrocarbons produced as the residual fraction from distillation of the products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350°C (662°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-011-00-8	265-064-6	64741-62-4	
Residues (petroleum), hydrocracked; Heavy Fuel oil [A complex combination of hydrocarbons produced as the residual fraction from distillation of the products of a hydrocracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350°C (662°F).]	649-012-00-3	265-076-1	64741-75-9	

Substances	Index number	EEC number	CAS number	Notas
Residues (petroleum), thermal cracked; Heavy Fuel oil [A complex combination of hydrocarbons produced as the residual fraction from distillation of the product from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350°C (662°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-013-00-9	265-081-9	64741-80-6	
Distillates (petroleum), heavy thermal cracked; Heavy Fuel oil [A complex combination of hydrocarbons from the distillation of the products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C15 through C36 and boiling in the range of approximately 260°C to 480°C (500°F to 896°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-014-00-4	265-082-4	64741-81-7	
Gas oils (petroleum), hydrotreated vacuum; Heavy Fuel oil [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C13 through C50 and boiling in the range of approximately 230°C to 600°C (446°F to 1112°F). This stream is likely to contain 5 wt.% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-015-00-X	265-162-9	64742-59-2	
Residues (petroleum), hydrodesulfurized atmospheric tower; Heavy Fuel oil [A complex combination of hydrocarbons obtained by treating an atmospheric tower residuum with hydrogen in the presence of a catalyst under conditions primarily to remove organic sulfur compounds. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350°C (662°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-016-00-5	265-181-2	64742-78-5	
Gas oils (petroleum), hydrodesulfurized heavy vacuum; Heavy Fuel oil [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and boiling in the range of approximately 350°C to 600°C (662°F to 1112°C). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-017-00-0	265-189-6	64742-86-5	
Residues (petroleum), steam-cracked; Heavy Fuel oil [A complex combination of hydrocarbons obtained as the residual fraction from the distillation of the products of a steam cracking process (including steam cracking to produce ethylene). It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly greater than C14 and boiling above approximately 260°C (500°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-018-00-6	265-193-8	64742-90-1	
Residues (petroleum), atmospheric; Heavy Fuel oil [A complex residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C11 and boiling above approximately 200°C (392°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-019-00-1	269-777-3	68333-22-2	

Substances	Index number	EEC number	CAS number	Notas
Clarified oils (petroleum), hydrodesulfurized catalytic cracked; Heavy Fuel oil [A complex combination of hydrocarbons obtained by treating catalytic cracked clarified oil with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350°C (662°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-020-00-7	269-782-0	68333-26-6	
Distillates (petroleum), hydrodesulfurized intermediate catalytic cracked; Heavy Fuel oil [A complex combination of hydrocarbons obtained by treating intermediate catalytic cracked distillates with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C30 and boiling in the range of approximately 205°C to 450°C (401°F to 842°F). It contains a relatively large proportion of tricyclic aromatic hydrocarbons.]	649-021-00-2	269-783-6	68333-27-7	
Distillates (petroleum), hydrodesulfurized heavy catalytic cracked; Heavy Fuel oil [A complex combination of hydrocarbons obtained by treatment of heavy catalytic cracked distillates with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C35 and boiling in the range of approximately 260°C to 500°C (500°F to 932°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-022-00-8	269-784-1	68333-28-8	
Fuel oil, residues-straight-run gas oils, high-sulfur; Heavy Fuel oil	649-023-00-3	270-674-0	68476-32-4	
Fuel oil, residual; Heavy Fuel oil [The liquid product from various refinery streams, usually residues. The composition is complex and varies with the source of the crude oil.]	649-024-00-9	270-675-6	68476-33-5	
Residues (petroleum), catalytic reformer fractionator residue distn.; Heavy Fuel oil [A complex residuum from the distillation of catalytic reformer fractionator residue. It boils approximately above 399°C (750°F).]	649-025-00-4	270-792-2	68478-13-7	
Residues (petroleum), heavy coker gas oil and vacuum gas oil; Heavy Fuel oil [A complex combination of hydrocarbons produced as the residual fraction from the distillation of heavy coker gas oil and vacuum gas oil. It predominantly consists of hydrocarbons having carbon numbers predominantly greater than C13 and boiling above approximately 230°C (446°F).]	649-026-00-X	270-796-4	68478-17-1	
Residues (petroleum), heavy coker and light vacuum; Heavy Fuel oil [A complex combination of hydrocarbons produced as the residual fraction from the distillation of heavy coker gas oil and light vacuum gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C13 and boiling above approximately 230°C (446°F).]	649-027-00-5	270-983-0	68512-61-8	
Residues (petroleum), light vacuum; Heavy Fuel oil [A complex residuum from the vacuum distillation of the residuum from the atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C13 and boiling above approximately 230°C (446°F).]	649-028-00-0	270-984-6	68512-62-9	

Substances	Index number	EEC number	CAS number	Notas
Residues (petroleum), steam-cracked light; Heavy Fuel oil [A complex residuum from the distillation of the products from a steam-cracking process. It consists predominantly of aromatic and unsaturated hydrocarbons having carbon numbers greater than C7 and boiling in the range of approximately 101°C to 555°C (214°F to 1030°F).]	649-029-00-6	271-013-9	68513-69-9	
Fuel oil,No 6; Heavy Fuel oil [A distillate oil having a minimum viscosity of 900 SUS at 37.7°C (100°F) to a maximum of 9000 SUS at 37.7°C (100°F).]	649-030-00-1	271-384-7	68553-00-4	
Residues (petroleum), topping plant, low-sulfur; Heavy Fuel oil [A low-sulfur complex combination of hydrocarbons produced as the residual fraction from the topping plant distillation of crude oil. It is the residuum after the straight-run gasoline cut, kerosene cut and gas oil cut have been removed.]	649-031-00-7	271-763-7	68607-30-7	
Gas oils (petroleum), heavy atmospheric; Heavy Fuel oil [A complex combination of hydrocarbons obtained by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C35 and boiling in the range of approximately 121°C to 510°C (250°F to 950°F).]	649-032-00-2	272-184-2	68783-08-4	
Residues (petroleum), coker scrubber, Condensed-ring-arom.-contg.; Heavy Fuel oil [A very complex combination of hydrocarbons produced as the residual fraction from the distillation of vaccum residuum and the products from a thermal cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C20 and boiling above approximately 350°C (662°F). This stream is likely to contain 5 wt.% or more of 4- to 6-membered condensed rind aromatic hydrocarbons.]	649-033-00-8	272-187-9	68783-13-1	
Distillates (petroleum), petroleum residues vacuum; Heavy Fuel oil [A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from the atmospheric distillation of crude oil.]	649-034-00-3	273-263-4	68955-27-1	
Residues (petroleum), steam-cracked, resinous; Heavy Fuel oil [A complex residuum from the distillation of steam-cracked petroleum residues.]	649-035-00-9	273-272-3	68955-36-2	
Distillates (petroleum), intermediate vacuum; Heavy Fuel oil [A complex combination of hydrocarbons produced by the vacuum, distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C14 through C42 and boiling in the range of approximately 250°C to 545°C (482°F to 1013°F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-036-00-4	274-683-0	70592-76-6	
Distillates (petroleum), light vacuum; Heavy Fuel oil [A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C35 and boiling in the range of approximately 250°C to 545°C (482°F to 1013°F).]	649-037-00-X	274-684-6	70592-77-7	

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), vacuum; Heavy Fuel oil [A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having numbers predominantly in the range of C15 through C50 and boiling in the range of approximately 270°C to 600°C (518°F to 1112°F). This stream is likely to contain 5 wt.% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-038-00-5	274-685-1	70592-78-8	
Gas oils (petroleum), hydrodesulfurized coker heavy vacuum; Heavy Fuel oil [A complex combination of hydrocarbons obtained by hydrodesulfurization of heavy coker distillate stocks, It consists predominantly of hydrocarbons having carbon numbers predominantly in the range C18 to C44 and boiling in the range of approximately 304°C to 548°C (579°F to 1018°F).Likely to contain 5% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-039-00-0	285-555-9	85117-03-9	
Residues (petroleum), steam-cracked, distillates; Heavy Fuel oil [A complex combination of hydrocarbons obtained during the production of refined petroleum tar by the distillation of steam cracked tar. It consists predominantly of aromatic and other hydrocarbons and organic sulfur compounds.]	649-040-00-6	292-657-7	90669-75-3	
Residues (petroleum), vacuum, light; Heavy Fuel oil [A complex residuum from the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C24 and boiling above approximately 390°C (734°F).]	649-041-00-1	292-658-2	90669-76-4	
Fuel oil, heavy, high-sulfur; Heavy Fuel oil [A complex combination of hydrocarbons obtained by the distillation of crude petroleum. It consists predominantly of aliphatic, aromatic and cycloaliphatic hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).]	649-042-00-7	295-396-7	92045-14-2	
Residues (petroleum), catalytic cracking; Heavy Fuel oil [A complex combination of hydrocarbons produced as the residual fraction from the distillation of the products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C11 and boiling above approximately 200°C (392°F).]	649-043-00-2	295-511-0	92061-97-7	
Distillates (petroleum), intermediate catalytic cracked, thermally degraded; Heavy Fuel oil [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process which has been used as a heat transfer fluid. It consists predominantly of hydrocarbons boiling in the range of approximately 220°C to 450°C (428°F to 842°F). This stream is likely to contain organic sulfur compounds.]	649-044-00-8	295-990-6	92201-59-7	
Residual oils (petroleum); Heavy Fuel oil [A complex combination of hydrocarbons, sulfur compounds and metal-containing organic compounds obtained as the residue from refinery fractionation cracking processes. It produces a finished oil with a viscosity above 2 cSt. at 100°C.]	649-045-00-3	298-754-0	93821-66-0	
Residues, steam cracked, thermally treated; Heavy Fuel oil [A complex combination of hydrocarbons obtained by the treatment and distillation of raw steam-cracked naphtha. It consists predominantly of unsaturated hydrocarbons boiling in the range above approximately 180°C (356°F).]	649-046-00-9	308-733-0	98219-64-8	

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), hydrodesulfurized full-range middle; Heavy Fuel oil [A complex combination of hydrocarbons obtained by treating a petroleum stock with hydrogen. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C9 through C25 and boiling in the range of approximately 150°C to 400°C (302°F to 752°F).]	649-047-00-4	309-863-0	101316-57-8	
Residues (petroleum), catalytic reformer fractionator; Heavy Fuel oil [A complex combination of hydrocarbons produced as the residual fraction from distillation of the product from a catalytic reforming process. It consists of predominantly aromatic hydrocarbons having carbon numbers predominantly in the range of C10 through C25 and boiling in the range of approximately 160°C to 400°C (320°F to 725°F). This stream is likely to contain 5 wt. % or more of 4- or 6-membered condensed ring aromatic hydrocarbons.]	649-048-00-X	265-069-3	64741-67-9	
Petroleum; Crude oil [A complex combination of hydrocarbons, It consists predominantly of aliphatic, alicyclic and aromatic hydrocarbons. It may also contain small amounts of nitrogen, oxygen and sulfur compounds. This category encompasses light, medium, and heavy petroleums, as well as the oils extended from tar sands. Hydrocarbonaceous materials requiring major chemical changes for their recovery or conversion to petroleum refinery feedstocks such as crude shale oils; upgraded shale oils and liquid coal fuels are not included in this definition.]	649-049-00-5	232-298-5	8002-05-9	
Gases (petroleum), catalytic cracked naphtha depropanizer overhead, C3-rich acid-free;Petroleum gas [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked hydrocarbons and treated to remove acidic impurities. It consists of hydrocarbons having carbon numbers in the range of C2 through C4, predominantly C3.]	649-062-00-6	270-755-0	68477-73-6	K
Gases (petroleum), catalytic cracker;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic cracking process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-063-00-1	270-756-6	68477-74-7	K
Gases (petroleum), catalytic cracker, C1-5-rich;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C1 through C6, predominantly C1 through C5.]	649-064-00-7	270-757-1	68477-75-8	K
Gases (petroleum), catalytic polymd. naphtha stabilizer overhead, C2-4-rich;Petroleum gas [A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic polymerized naphtha. It consists of aliphatic hydrocarbons having carbon numbers in the range of C2 through C6, predominantly C2 through C4.]	649-065-00-2	270-758-7	68477-76-9	K
Gases (petroleum), catalytic reformer, C1-4-rich;Petroleum gas [A complex combination of hydrocarbons produced by distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers in the range of C1 through C6, predominantly C1 through C4.]	649-066-00-8	270-760-8	68477-79-2	K
Gases (petroleum), C3-5 olefinic-paraffinic alkylation feed;Petroleum gas [A complex combination of olefinic and paraffinic hydrocarbons having carbon numbers in the range of C3 through C5 which are used as alkylation feed. Ambient temperatures normally exceed the critical temperature of these combinations.]	649-067-00-3	270-765-5	68477-83-8	K

Substances	Index number	EEC number	CAS number	Notas
Gases (petroleum), C4-rich;Petroleum gas [A complex combination of hydrocarbons produced by distillation of products from a catalytic fractionation process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C3 through C5, predominantly C4.]	649-068-00-9	270-767-6	68477-85-0	K
Gases (petroleum), deethanizer overheads;Petroleum gas [A complex combination of hydrocarbons produced from distillation of the gas and gasoline fractions from the catalytic cracking process. It contains predominantly ethane and ethylene.]	649-069-00-4	270-768-1	68477-86-1	K
Gases (petroleum), deisobutanizer tower overheads;Petroleum gas [A complex combination of hydrocarbons produced by the atmospheric distillation of a butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 through C4.]	649-070-00-X	270-769-7	68477-87-2	K
Gases (petroleum), depropanizer dry, propene-rich;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists predominantly of propylene with some ethane and propane.]	649-071-00-5	270-772-3	68477-90-7	K
Gases (petroleum), depropanizer overheads;Petroleum gas [A complex combination of hydrocarbons produced by distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C4.]	649-072-00-0	270-773-9	68477-91-8	K
Gases (petroleum), gas recovery plant depropanizer overheads;Petroleum gas [A complex combination of hydrocarbons obtained by fractionation of miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C4, predominantly propane.]	649-073-00-6	270-777-0	68477-94-1	K
Gases (petroleum), Girbatol unit feed;Petroleum gas [A complex combination of hydrocarbons that is used as the feed into the Girbatol unit to remove hydrogen sulfide. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C4.]	649-074-00-1	270-778-6	68477-95-2	K
Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free;Petroleum gas	649-075-00-7	270-782-8	68477-99-6	K
Tail gas (petroleum), catalytic cracked clarified oil and thermal cracked vacuum residue fractionation reflux drum;Petroleum gas [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked clarified oil and thermal cracked vacuum residue. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-076-00-2	270-802-5	68478-21-7	K
Tail gas (petroleum), catalytic cracked naphtha stabilization absorber;Petroleum gas [A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-077-00-8	270-803-0	68478-22-8	K

Substances	Index number	EEC number	CAS number	Notas
Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfurizer combined fractionater;Petroleum gas [A complex combination of hydrocarbons obtained from the fractionation of products from catalytic cracking, catalytic reforming and hydrodesulfurizing processes treated to remove acidic impurities. It consists predominantly of hydrocarbons having cabon numbers predominantly in the range of C1 through C5.]	649-078-00-3	270-804-6	68478-24-0	K
Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer;Petroleum gas [A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic reformed naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-079-00-9	270-806-7	68478-26-2	K
Tail gas (petroleum), saturate gas plant mixed stream, C4-rich;Petroleum gas [A complex combination of hydrocarbons obtained from the fractionation stabilization of straight-run naphtha, distillation tail gas and catalytic reformed naphtha stabilizer tail gas. It consists of hydrocarbons having carbon numbers in the range of C3 through C6, predominantly butane and isobutane.]	649-080-00-4	270-813-5	68478-32-0	K
Tail gas (petroleum), saturate gas recovery plant, C1-2-rich;Petroleum gas [A complex combination of hydrocarbons obtained from fractionation of distillate tail gas, straight-run naphtha, catalytic reformed naphtha stabilizer tail gas. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C5, predominantly methane and ethane.]	649-081-00-X	270-814-0	68478-33-1	K
Tail gas (petroleum), vacuum residues thermal cracker;Petroleum gas [A complex combination of hydrocarbons obtained from the thermal cracking of vacuum residues. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-082-00-5	270-815-6	68478-34-2	K
Hydrocarbons, C3-4-rich, petroleum distillate;Petroleum gas [A complex combination of hydrocarbons produced by distillation and condensation of crude oil. It consists of hydrocarbons having carbon numbers in the range of C3 through C5, predominantly C3 through C4.]	649-083-00-0	270-990-9	68512-91-4	K
Gases (petroleum), full-range straight-run naphtha dehexanizer off; petroleum gas [A complex combination of hydrocarbons obtained by the fractionation of the full-range straight-run naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]	649-084-00-6	271-000-8	68513-15-5	K
Gases (petroleum), hydrocracking depropanizer off, hydrocarbon-rich;Petroleum gas [A complex combination of hydrocarbon produced by the distillation of products from a hydrocracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4. It may also contain small amounts of hydrogen and hydrogen sulfide.]	649-085-00-1	271-001-3	68513-16-6	K
Gases (petroleum), light straight-run naphtha stabilizer off;Petroleum gas [A complex combination of hydrocarbons obtained by the stabilization of light straight-run naphtha. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]	649-086-00-7	271-002-9	68513-17-7	K

Substances	Index number	EEC number	CAS number	Notas
Residues (petroleum), alkylation splitter, C4-rich;Petroleum gas [A complex residuum from the distillation of streams various refinery operations. It consists of hydrocarbons having carbon numbers in the range of C4 through C5, predominantly butane and boiling in the range of approximately -11.7°C to 27.8°C (11°F to 82°F).]	649-087-00-2	271-010-2	68513-66-6	K
Hydrocarbons, C1-4, sweetened;Petroleum gas [A complex combination of hydrocarbons obtained by subjecting hydrocarbon gases to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4 and boiling in the range of approximately -164°C to -0.5°C (-263°F to 31°F).]	649-089-00-3	271-038-5	68514-36-3	K
Hydrocarbons, C1-3;Petroleum gas [A complex combination of hydrocarbons having carbon numbers predominantly in the range of C1 through C3 and boiling in the range of approximately minus 164°C to minus 42°C (-263°F to -44°F).]	649-090-00-9	271-259-7	68527-16-2	K
Hydrocarbons, C1-4, debutanizer fraction;Petroleum gas	649-091-00-4	271-261-8	68527-19-5	K
Gases (petroleum), C1-5, wet;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of crude oil and/or the cracking of tower gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-092-00-X	271-624-0	68602-83-5	K
Hydrocarbons, C2-4;Petroleum gas	649-093-00-5	271-734-9	68606-25-7	K
Hydrocarbons, C3;Petroleum gas	649-094-00-0	271-735-4	68606-26-8	K
Gases (petroleum), alkylation feed;Petroleum gas [A complex combination of hydrocarbons produced by the catalytic cracking of gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C4.]	649-095-00-6	271-737-5	68606-27-9	K
Gases (petroleum), depropanizer bottoms fractionation off;Petroleum gas [A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It consists predominantly of butane, isobutane and butadiene.]	649-096-00-1	271-742-2	68606-34-8	K
Gases (petroleum), refinery blend;Petroleum gas [A complex combination obtained from various processes. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-097-00-7	272-183-7	68783-07-3	K
Gases (petroleum), catalytic cracking;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C3 through C5.]	649-098-00-2	272-203-4	68783-64-2	K

Substances	Index number	EEC number	CAS number	Notas
Gases (petroleum), C2-4, sweetened;Petroleum gas [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C2 through C4 and boiling in the range of approximately -51°C to -34°C (-60°F to -30°F).]	649-099-00-8	272-205-5	68783-65-3	K
Gases (petroleum), crude oil fractionation off;Petroleum gas [A complex combination of hydrocarbons produced by the fractionation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-100-00-1	272-871-7	68918-99-0	K
Gases (petroleum), dehexanizer off;Petroleum gas [A complex combination of hydrocarbons obtained by the fractionation of combined naphtha streams. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-101-00-7	272-872-2	68919-00-6	K
Gases (petroleum), light straight run gasoline fractionation stabilizer off;Petroleum gas [A complex combination of hydrocarbons obtained by the fractionation of light straight-run gasoline. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-102-00-2	272-878-5	68919-05-1	K
Gases (petroleum), naphtha unifiner desulfurization stripper off;Petroleum gas [A complex combination of hydrocarbons produced by a naphtha unifiner desulfurization process and stripped from the naphtha product. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-103-00-8	272-879-0	68919-06-2	K
Gases (petroleum), straight-run naphtha catalytic reforming off;Petroleum gas [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and fractionation of the total effluent. It consists of methane, ethane, and propane.]	649-104-00-3	272-882-7	68919-09-5	K
Gases (petroleum), fluidized catalytic cracker splitter overheads;Petroleum gas [A complex combination of hydrocarbons produced by the fractionation of the charge to the C3-C4 splitter. It consists predominantly of C3 hydrocarbons.]	649-105-00-9	272-893-7	68919-20-0	K
Gases (petroleum), straight-run stabilizer off;Petroleum gas [A complex combination of hydrocarbons obtained from the fractionation of the liquid from the first tower used in the distillation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-106-00-4	272-883-2	68919-10-8	K
Gases (petroleum), catalytic cracked naphtha debutanizer;Petroleum gas [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-107-00-X	273-169-3	68952-76-1	K
Tail gas (petroleum), catalytic cracked distillate and naphtha stabilizer;Petroleum gas [A complex combination of hydrocarbons obtained by the fractionation of catalytic cracked naphtha and distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-108-00-5	273-170-9	68952-77-2	K

Substances	Index number	EEC number	CAS number	Notas
Tail gas (petroleum), thermal-cracked distillate, gas oil and naphtha absorber; petroleum gas [A complex combination of hydrocarbons obtained from the separation of thermal-cracked distillates, naphtha and gas oil. It consists pedrominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-109-00-0	273-175-6	68952-81-8	K
Tail gas (petroleum), thermal cracked hydrocarbon fractionation stabilizer, petroleum coking;Petroleum gas [A complex combination of hydrocarbons obtained from the fractionation stabilization of thermal cracked hydrocarbons from petroleum coking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-110-00-6	273-176-1	68952-82-9	K
Gases (petroleum, light steam-cracked, butadiene conc.;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of products from a thermal cracking process, It consists of hydrocarbons having a carbon number predominantly of C4.]	649-111-00-1	273-265-5	68955-28-2	K
Gases (petroleum), straight-run naphtha catalytic reformer stabilizer overhead;Petroleum gas [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C4.]	649-112-00-7	273-270-2	68955-34-0	K
Hydrocarbons, C4;Petroleum gas	649-113-00-2	289-339-5	87741-01-3	K
Alkanes, C1-4, C3-rich;Petroleum gas	649-114-00-8	292-456-4	90622-55-2	K
Gases (petroleum), steam-cracker C3-rich;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of products from a steam cracking process. It consists predominantly of propylene with some propane and boils in the range of approximately minus 70°C to 0°C (minus 94°F to 32°F).]	649-115-00-3	295-404-9	92045-22-2	K
Hydrocarbons, C4, steam-cracker distillate;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of the products of a steam cracking process. It consists predominantly of hydrocarbons having a carbon number of C4, predominantly 1-butene and 2-butene, containing also butane and isobutene and boiling in the range of approximately minus 12°C to 5°C (10.4°F to 41°F).]	649-116-00-9	295-405-4	92045-23-3	K
Petroleum gases, liquefied, sweetened, C4 fraction;Petroleum gas [A complex combination of hydrocarbons obtained by subjecting a liquified petroleum gas mix to a sweetening process to oxidize mercaptans or to remove acidic impurities. It consists predominantly of C4 saturated and unsaturated hydrocarbons.]	649-117-00-4	295-463-0	92045-80-2	K
Hydrocarbons, C4, 1,3-butadiene-and isobutene-free;Petroleum gas	649-118-00-X	306-004-1	95465-89-7	K
Raffinates (petroleum), steam-cracked C4 fraction cuprous ammonium acetate extn., C3-5 and C3-5 unsatd., butadiene-free;Petroleum gas	649-119-00-5	307-769-4	97722-19-5	K

Substances	Index number	EEC number	CAS number	Notas
Gases (petroleum), amine system feed; Refinery gas [The feed gas to the amine system for removal of hydrogen sulfide. It consists of hydrogen. Carbon monoxide, carbon dioxide, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5 may also be present.]	649-120-00-0	270-746-1	68477-65-6	K
Gases (petroleum), benzene unit hydrodesulfurizer off; Refinery gas [Off gases produced by the benzene unit. It consists primarily of hydrogen. Carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6, including benzene, may also be present.]	649-121-00-6	270-747-7	68477-66-7	K
Gases (petroleum), benzene unit recycle, hydrogen-rich; Refinery gas [A complex combination of hydrocarbons obtained by recycling the gases of the benzene unit. It consists primarily of hydrogen with various small amounts of carbon monoxide and hydrocarbons having carbon numbers in the range of C1 through C6.]	649-122-00-1	270-748-2	68477-67-8	K
Gases (petroleum), blend oil, hydrogen-nitrogen-rich; Refinery gas [A complex combination of hydrocarbons obtained by distillation of a blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide, and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-123-00-7	270-749-8	68477-68-9	K
Gases (petroleum), catalytic reformed naphtha stripper overheads; Refinery gas [A complex combination of hydrocarbons obtained from stabilization of catalytic reformed naphtha. Its consists of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-124-00-2	270-759-2	68477-77-0	K
Gases (petroleum), C6-8 catalytic reformer recycle; Refinery gas [A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C6-C8 feed and recycled to conserve hydrogen. It consists primarily of hydrogen. It may also contain various small amounts of carbon monoxide, carbon dioxide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-125-00-8	270-761-3	68477-80-5	K
Gases (petroleum), C6-8 catalytic reformer; Refinery gas [A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C6-C8 feed. It consists of hydrocarbons having carbon numbers in the range of C1 through C5 and hydrogen.]	649-126-00-3	270-762-9	68477-81-6	K
Gases (petroleum), C6-8 catalytic reformer recycle, hydrogen-rich; Refinery gas	649-127-00-9	270-763-4	68477-82-7	K
Gases (petroleum), C2-return stream; Refinery gas [A complex combination of hydrocarbons obtained by the extraction of hydrogen from a gas stream which consists primarily of hydrogen with small amounts of nitrogen, carbon monoxide, methane, ethane, and ethylene. It contains predominantly hydrocarbons such as methane, ethane, and ethylene with small amounts of hydrogen, nitrogen and carbon monoxide.]	649-128-00-4	270-766-0	68477-84-9	K
Gases (petroleum), dry sour, gas-concn.-unit-off; Refinery gas [The complex combination of dry gases from a gas concentration unit. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]	649-129-00-X	270-774-4	68477-92-9	K

Substances	Index number	EEC number	CAS number	Notas
Gases (petroleum), gas concn. reabsorber distn.; Refinery gas [A complex combination of hydrocarbons produced by distillation of products from combined gas streams in a gas concentration reabsorber. It consists predominantly of hydrogen, carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide and hydrocarbons having carbon numbers in the range of C1 through C3.]	649-130-00-5	270-776-5	68477-93-0	K
Gases (petroleum), hydrogen absorber off; Refinery gas [A complex combination obtained by absorbing hydrogen from a hydrogen rich stream. It consists of hydrogen, carbon monoxide, nitrogen, and methane with small amounts of C2 hydrocarbons.]	649-131-00-0	270-779-1	68477-96-3	K
Gases (petroleum), hydrogen-rich; Refinery gas [A complex combination separated as a gas from hydrocarbon gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C2 hydrocarbons.]	649-132-00-6	270-780-7	68477-97-4	K
Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-133-00-1	270-781-2	68477-98-5	K
Gases (petroleum), recycle, hydrogen-rich; Refinery gas [A complex combination obtained from recycled reactor gases. It consists primarily of hydrogen with various small amounts of carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide, and saturated aliphatic hydrocarbons having carbon numbers in the range of C1 through C5.]	649-134-00-7	270-783-3	68478-00-2	K
Gases (petroleum), reformer make-up, hydrogen-rich; Refinery gas [A complex combination obtained from the reformers. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-135-00-2	270-784-9	68478-01-3	K
Gases (petroleum), reforming hydrotreater; Refinery gas [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane, and ethane with various small amounts of hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 thorugh C5.]	649-136-00-8	270-785-4	68478-02-4	K
Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen and methane with various small amounts of carbon monoxide, carbon dioxide, nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C5.]	649-137-00-3	270-787-5	68478-03-5	K
Gases (petroleum), reforming hydrotreater make-up, hydrogen-rich; Refinery gas [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-138-00-9	270-788-0	68478-04-6	K

Substances	Index number	EEC number	CAS number	Notas
Gases (petroleum), thermal cracking distn.; Refinery gas [A complex combination produced by distillation of products from a thermal cracking process. It consists of hydrogen, hydrogen sulfide, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-139-00-4	270-789-6	68478-05-7	K
Tail gas (petroleum), catalytic cracker refractionation absorber; Refinery gas [A complex combination of hydrocarbons obtained from refractionation of products from a catalytic cracking process. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]	649-140-00-X	270-805-1	68478-25-1	K
Tail gas (petroleum), catalytic reformed naphtha separator; Refinery gas [A complex combination of hydrocarbons obtained from the catalytic reforming of straight run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-141-00-5	270-807-2	68478-27-3	K
Tail gas (petroleum), catalytic reformed naphtha stabilizer; Refinery gas [A complex combination of hydrocarbons obtained from the stabilization of catalytic reformed naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-142-00-0	270-808-8	68478-28-4	K
Tail gas (petroleum), cracked distillate hydrotreater separator; Refinery gas [A complex combination of hydrocarbons obtained by treating cracked distillates with hydrogen in the presence of a catalyst. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-143-00-6	270-809-3	68478-29-5	K
Tail gas (petroleum), hydrodesulfurized straight-run naphtha separator; Refinery gas [A complex combination of hydrocarbons obtained from hydrodesulfurization of straight-run naphtha. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-144-00-1	270-810-9	68478-30-8	K
Gases (petroleum), catalytic reformed straight-run naphtha stabilizer overheads; Refinery gas [A complex combination of hydrocarbons obtained from the catalytic reforming of straight-run naphtha followed by fractionation of the total effluent. It consists of hydrogen, methane, ethane and propane.]	649-145-00-7	270-999-8	68513-14-4	K
Gases (petroleum), reformer effluent high-pressure flash drum off; Refinery gas [A complex combination produced by the high-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	649-146-00-2	271-003-4	68513-18-8	K
Gases (petroleum), reformer effluent low-pressure flash drum off; Refinery gas [A complex combination produced by low-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	649-147-00-8	271-005-5	68513-19-9	K
Gases (petroleum), oil refinery gas distn. off; Refinery gas [A complex combination separated by distillation of a gas stream containing hydrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers in the range of C1 through C6 or obtained by cracking ethane and propane. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C2, hydrogen, nitrogen, and carbon monoxide.]	649-148-00-3	271-258-1	68527-15-1	K

Substances	Index number	EEC number	CAS number	Notas
Gases (petroleum), benzene unit hydrotreater dependanizer overheads; Refinery gas [A complex combination produced by treating the feed from the benzene unit with hydrogen in the presence of a catalyst followed by dependanizing. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6. It may contain trace amounts of benzene.]	649-149-00-9	271-623-5	68602-82-4	K
Gases (petroleum), secondary absorber off, fluidized catalytic cracker overheads fractionator; Refinery gas [A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidized catalytic cracker. It consists of hydrogen, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]	649-150-00-4	271-625-6	68602-84-6	K
Gases (petroleum), hydrocracking low-pressure separator; Refinery gas [A complex combination obtained by the liquid-vapor separation of the hydrocracking process reactor effluent. It consists predominantly of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]	649-152-00-5	272-182-1	68783-06-2	K
Gases (petroleum), refinery; Refinery gas [A complex combination obtained from various petroleum refining operations. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]	649-153-00-0	272-338-9	68814-67-5	K
Gases (petroleum), platformer products separator off; Refinery gas [A complex combination obtained from the chemical reforming of naphthenes to aromatics. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C4.]	649-154-00-6	272-343-6	68814-90-4	K
Gases (petroleum), hydrotreated sour kerosine dependanizer stabilizer off; Refinery gas [The complex combination obtained from the dependanizer stabilization of hydrotreated kerosine. It consists primarily of hydrogen, methane, ethane, and propane with various small amounts of nitrogen, hydrogen sulfide, carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C4 through C5.]	649-155-00-1	272-775-5	68911-58-0	K
Gases (petroleum), hydrotreated sour kerosine flash drum; Refinery gas [A complex combination obtained from the flash drum of the unit treating sour kerosine with hydrogen in the presence of a catalyst. It consists primarily of hydrogen and methane with various small amounts of nitrogen, carbon monoxide, and hydro-carbons having carbon numbers predominantly in the range of C2 through C5.]	649-156-00-7	272-776-0	68911-59-1	K
Gases (petroleum), distillate unifiner desulfurization stripper off; Refinery gas [A complex combination stripped from the liquid product of the unifiner desulfurization process. It consists of hydrogen sulfide, methane, ethane, and propane.]	649-157-00-2	272-873-8	68919-01-7	K
Gases (petroleum), fluidized catalytic cracker fractionation off; Refinery gas [A complex combination produced by the fractionation of the overhead product of the fluidized catalytic cracking process. It consists of hydrogen, hydrogen sulfide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-158-00-8	272-874-3	68919-02-8	K

Substances	Index number	EEC number	CAS number	Notas
Gases (petroleum), fluidized catalytic cracker scrubbing secondary absorber off; Refinery gas [A complex combination produced by scrubbing the overhead gas from the fluidized catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.]	649-159-00-3	272-875-9	68919-03-9	K
Gases (petroleum), heavy distillate hydrotreater desulfurization stripper off; Refinery gas [A complex combination stripped from the liquid product of the heavy distillate hydrotreater desulfurization process. It consists of hydrogen, hydrogen sulfide, and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-160-00-9	272-876-4	68919-04-0	K
Gases (petroleum), platformer stabilizer off, light ends fractionation; Refinery gas [A complex combination obtained by the fractionation of the light ends of the platinum reactors of the plattformer unit. It consists of hydrogen, methane, ethane and propane.]	649-161-00-4	272-880-6	68919-07-3	K
Gases (petroleum), preflash tower off, crude distn.; Refinery gas [A complex combination produced from the first tower used in the distillation of crude oil. It consists of nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-162-00-X	272-881-1	68919-08-4	K
Gases (petroleum), tar stripper off; Refinery gas [A complex combination obtained by the fractionation of reduced crude oil. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-163-00-5	272-884-8	68919-11-9	K
Gases (petroleum), unifiner stripper off; Refinery gas [A combination of hydrogen and methane obtained by fractionation of the products from the unifiner unit.]	649-164-00-0	272-885-3	68919-12-0	K
Tail gas (petroleum), catalytic hydrodesulfurized naphtha separator; Refinery gas [A complex combination of hydrocarbons obtained from the hydrodesulfurization of naphtha. It consists of hydrogen, methane, ethane, and propane.]	649-165-00-6	273-173-5	68952-79-4	K
Tail gas (petroleum), straight-run naphtha hydrodesulfurizer; Refinery gas [A complex combination obtained from the hydrodesulfurization of straight-run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-166-00-1	273-174-0	68952-80-7	K
Gases (petroleum), sponge absorber off, fluidized catalytic cracker and gas oil desulfurizer overhead fractionation; Refinery gas [A complex combination obtained by the fractionation of products from the fluidized catalytic cracker and gas oil desulfurizer. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-167-00-7	273-269-7	68955-33-9	K
Gases (petroleum), crude distn. and catalytic cracking; Refinery gas [A complex combination produced by crude distillation and catalytic cracking processes. It consists of hydrogen, hydrogen sulfide, nitrogen, carbon monoxide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-168-00-2	273-563-5	68989-88-8	K

Substances	Index number	EEC number	CAS number	Notas
Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas [A complex combination produced by desulfurization of gas oils with diethanolamine. It consists predominantly of hydrogen sulfide, hydrogen and aliphatic hydrocarbons having carbon numbers in the range of C1 through C5.]	649-169-00-8	295-397-2	92045-15-3	K
Gases (petroleum), gas oil hydrodesulfurization effluent; Refinery gas [A complex combination obtained by separation of the liquid phase from the effluent from the hydrogenation reaction. It consists predominantly of hydrogen, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]	649-170-00-3	295-398-8	92045-16-4	K
Gases (petroleum), gas oil hydrodesulfurization purge; Refinery gas [A complex combination of gases obtained from the reformer and from the purges from the hydrogenation reactor. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-171-00-9	295-399-3	92045-17-5	K
Gases (petroleum), hydrogenator effluent flash drum off; Refinery gas [A complex combination of gases obtained from flash of the effluents after the hydrogenation reaction. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-172-00-4	295-400-7	92045-18-6	K
Gases (petroleum), naphtha steam cracking high-pressure residual; Refinery gas [A complex combination obtained as a mixture of the non-condensable portions from the product of a naphtha steam cracking process as well as residual gases obtained during the preparation of subsequent products. It consists predominantly of hydrogen and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C1 through C5 with which natural gas may also be mixed.]	649-173-00-X	295-401-2	92045-19-7	K
Gases (petroleum), residue visbaking off; Refinery gas [A complex combination obtained from viscosity reduction of residues in a furnace. It consists predominantly of hydrogen sulfide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-174-00-5	295-402-8	92045-20-0	K
Foots oil (petroleum), acid-treated; Foots oil [A complex combination of hydrocarbons obtained by treatment of Foot's oil with sulfuric acid. It consists predominantly of branched-chain hydrocarbons with carbon numbers predominantly in the range of C20 through C50.]	649-175-00-0	300-225-7	93924-31-3	L
Foots oil (petroleum), clay-treated; Foots oil [A complex combination of hydrocarbons obtained by treatment of Foot's oil with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists predominantly of branched chain hydrocarbons with carbon numbers predominantly in the range of C20 through C50.]	649-176-00-6	300-226-2	93924-32-4	L
Gases (petroleum), C3-4;Petroleum gas [A complex combination of hydrocarbons produced by distillation of products from the cracking of crude oil. It consists of hydrocarbons having carbon numbers in the range of C3 through C4, predominantly of propane and propylene, and boiling in the range of approximately -51°C to -1°C (-60°F to 30°F.)]	649-177-00-1	268-629-5	68131-75-9	K

Substances	Index number	EEC number	CAS number	Notas
Tail gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha fractionation absorber;Petroleum gas [The complex combination of hydrocarbons from the distillation of the products from catalytic cracked distillates and catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C4.]	649-178-00-7	269-617-2	68307-98-2	K
Tail gas (petroleum), catalytic polymn. naphtha fractionation stabilizer;Petroleum gas [A complex combination of hydrocarbons from the fractionation stabilization products from polymerization of naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C4.]	649-179-00-2	269-618-8	68307-99-3	K
Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer, hydrogen sulfide-free;Petroleum gas [A complex combination of hydrocarbons obtained from fractionation stabilization of catalytic reformed naphtha and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-180-00-8	269-619-3	68308-00-9	K
Tail gas (petroleum), cracked distillate hydrotreater stripper;Petroleum gas [A complex combination of hydrocarbons obtained by treating thermal cracked distillates with hydrogen in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-181-00-3	269-620-9	68308-01-0	K
Tail gas (petroleum), straight-run distillate hydrodesulfurizer, hydrogen sulfide-free;Petroleum gas [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight run distillates and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-182-00-9	269-630-3	68308-10-1	K
Tail gas (petroleum), gas oil catalytic cracking absorber;Petroleum gas [A complex combination of hydrocarbons obtained from the distillation of products from the catalytic cracking of gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-183-00-4	269-623-5	68308-03-2	K
Tail gas (petroleum), gas recovery plant;Petroleum gas [A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-184-00-X	269-624-0	68308-04-3	K
Tail gas (petroleum), gas recovery plant deethanizer;Petroleum gas [A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists of hydrocarbon having carbon numbers predominantly in the range of C1 through C4.]	649-185-00-5	269-625-6	68308-05-4	K
Tail gas (petroleum), hydrodesulfurized distillate and hydrodesulfurized naphtha fractionator, acid-free;Petroleum gas [A complex combination of hydrocarbons obtained from fractionation of hydrodesulfurized naphtha and distillate hydrocarbon streams and treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-186-00-0	269-626-1	68308-06-5	K

Substances	Index number	EEC number	CAS number	Notas
Tail gas (petroleum), hydrodesulfurized vacuum gas oil stripper, hydrogen sulfide-free;Petroleum gas [A complex combination of hydrocarbons obtained from stripping stabilization of catalytic hydrodesulfurized vacuum gas oil and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-187-00-6	269-627-7	68308-07-6	K
Tail gas (petroleum), light straight-run naphtha stabilizer, hydrogen sulfide-free; petroleum gas [A complex combination of hydrocarbons obtained from fractionation stabilization of light straight run naphtha and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-188-00-1	269-629-8	68308-09-8	K
Tail gas (petroleum), propane-propylene alkylation feed prep deethanizer;Petroleum gas [A complex combination of hydrocarbons obtained from the distillation of the reaction products of propane with propylene. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-189-00-7	269-631-9	68308-11-2	K
Tail gas (petroleum), vacuum gas oil hydrodesulfurizer, hydrogen sulfide-free;Petroleum gas [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of vacuum gas oil and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	649-190-00-2	269-632-4	68308-12-3	K
Gases (petroleum), catalytic cracked overheads;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of products from the catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C5 and boiling in the range of approximately -48°C to 32°C (-54°F to 90°F).]	649-191-00-8	270-071-2	68409-99-4	K
Natural gas, dried;Petroleum gas [A complex combination of hydrocarbons separated from natural gas. It consists of saturated aliphatic hydrocarbons having carbon numbers in the range of C1 through C4, predominantly methane and ethane.]	649-192-00-3	270-085-9	68410-63-9	K
Alkanes, C1-2;Petroleum gas	649-193-00-9	270-651-5	68475-57-0	K
Alkanes, C2-3;Petroleum gas	649-194-00-4	270-652-0	68475-58-1	K
Alkanes, C3-4; petroleum gas	649-195-00-X	270-653-6	68475-59-2	K
Alkanes, C4-5;Petroleum gas	649-196-00-5	270-654-1	68475-60-5	K
Fuel gases;Petroleum gas [A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.]	649-197-00-0	270-667-2	68476-26-6	K
Fuel gases, crude oil of distillates;Petroleum gas [A complex combination of light gases produced by distillation of crude oil and by catalytic reforming of naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C4 and boiling in the range of approximately -217°C to -12°C (-423°F to 10°F).]	649-198-00-6	270-670-9	68476-29-9	K

Substances	Index number	EEC number	CAS number	Notas
Hydrocarbons, C3-4;Petroleum gas	649-199-00-1	270-681-9	68476-40-4	K
Hydrocarbons, C4-5;Petroleum gas	649-200-00-5	270-682-4	68476-42-6	K
Hydrocarbons, C2-4, C3-rich;Petroleum gas	649-201-00-0	270-689-2	68476-49-3	K
Petroleum gases, liquefied;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately -40°C to 80°C (-40°F to 176°F).]	649-202-00-6	270-704-2	68476-85-7	K
Petroleum gases, liquefied, sweetened;Petroleum gas [A complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately -40°C to 80°C (-40°F to 176°F).]	649-203-00-1	270-705-8	68476-86-8	K
gases (petroleum), C3-4, isobutane-rich;Petroleum gas [A complex combination of hydrocarbons from the distillation of saturated and unsaturated hydrocarbons usually ranging in carbon numbers from C3 through C6, predominantly butane and isobutane. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C3 through C4, predominantly isobutane.]	649-204-00-7	270-724-1	68477-33-8	K
Distillates (petroleum), C3-6, piperylene-rich;Petroleum gas [A complex combination of hydrocarbons from the distillation of saturated and unsaturated aliphatic hydrocarbons usually ranging in the carbon numbers C3 thourgh C6. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C3 through C6, predominantly piperylenes.]	649-205-00-2	270-726-2	68477-35-0	K
Gases (petroleum), butane splitter overheads;Petroleum gas [A complex combination of hydrocarbons obtained from the distillation of the butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 through C4.]	649-206-00-8	270-750-3	68477-69-0	K
Gases (petroleum), C2-3;Petroleum gas [A complex combination of hydrocarbons produced by the distillation of products from a catalytic fractionation process. It contains predominantly ethane, ethylene, propane, and propylene.]	649-207-00-3	270-751-9	68477-70-3	K
Gases (petroleum), catalytic-cracked gas oil depropanizer bottoms, C4-rich acid-free;Petroleum gas [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked gas oil hydrocarbon stream and treated to remove hydrogen sulfide and other acidic components. It consists of hydrocarbons having carbon numbers in the range of C3 through C5, predominantly C4.]	649-208-00-9	270-752-4	68477-71-4	K
Gases (petroleum), catalytic-cracked naphtha debutanizer bottoms, C3-5-rich;Petroleum gas [A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 through C5.]	649-209-00-4	270-754-5	68477-72-5	K

Substances	Index number	EEC number	CAS number	Notas
Tail gas (petroleum), isomerized naphtha fractionation stabilizer;Petroleum gas [A complex combination of hydrocarbons obtained from the fractionation stabilization products from isomerized naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	649-210-00-X	269-628-2	68308-08-7	K
Foots oil (petroleum), carbon-treated; Foots oil [A complex combination of hydrocarbons obtained by the treatment of Foots oil with activated carbon for the removal of trace constituents and impurities. It consists predominantly of saturated straight chain hydrocarbons having carbon numbers predominantly greater than C12.]	649-211-00-5	308-126-0	97862-76-5	L
Distillates (petroleum), sweetened middle; Gasoil - unspecified [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 150°C to 345°C (302°F to 653°F).]	649-212-00-0	265-088-7	64741-86-2	N
Gas oils (petroleum), solvent-refined; Gasoil - unspecified [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C11 through C25 and boiling in the range of approximately 205°C to 400°C (401°F to 752°F).]	649-213-00-6	265-092-9	64741-90-8	N
Distillates (petroleum), solvent-refined middle; Gasoil - unspecified [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 150°C to 345°C (302°F to 653°F).]	649-214-00-1	265-093-4	64741-91-9	N
Gas oils (petroleum), acid-treated; Gasoil - unspecified [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C13 through C25 and boiling in the range of approximately 230°C to 400°C (446°F to 752°F).]	649-215-00-7	265-112-6	64742-12-7	N
Distillates (petroleum), acid-treated middle; Gasoil - unspecified [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C20 and boiling in the range of approximately 205°C to 345°C (401°F to 653°F).]	649-216-00-2	265-113-1	64742-13-8	N
Distillates (petroleum), acid-treated light; Gasoil - unspecified [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (302°F to 554°F).]	649-217-00-8	265-114-7	64742-14-9	N
Gas oils (petroleum), chemically neutralized; Gasoil - unspecified [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C13 through C25 and boiling in the range of approximately 230°C to 400°C (446°F to 752°F).]	649-218-00-3	265-129-9	64742-29-6	N

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), chemically neutralized middle; Gasoil - unspecified [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C20 and boiling in the range of approximately 205°C to 345°C (401°F to 653°F).]	649-219-00-9	265-130-4	64742-30-9	N
Distillates (petroleum), clay-treated middle; Gasoil - unspecified [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 150°C to 345°C (302°F to 653°F).]	649-220-00-4	265-139-3	64742-38-7	N
Distillates (petroleum), hydrotreated middle; Gasoil - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C25 and boiling in the range of approximately 205°C to 400°C (401°F to 752°F).]	649-221-00-X	265-148-2	64742-46-7	N
Gas oils (petroleum), hydrodesulfurized; Gasoil - unspecified [A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C13 through C25 and boiling in the range of approximately 230°C to 400°C (446°F to 752°F).]	649-222-00-5	265-182-8	64742-79-6	N
Distillates (petroleum), hydrodesulfurized middle; Gasoil - unspecified [A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C25 and boiling in the range of approximately 205°C to 400°C (401°F to 752°F).]	649-223-00-0	265-183-3	64742-80-9	N
Distillates (petroleum), catalytic reformer fractionator residue, high-boiling; Gasoil - unspecified [A complex combination of hydrocarbons from the distillation of catalytic reformer fracftionator residue. It boils in the range of approximately 343°C to 399°C (650°F to 750°F).]	649-228-00-8	270-719-4	68477-29-2	N
Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling; Gasoil - unspecified [A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 288°C to 371°C (550°F to 700°F).]	649-229-00-3	270-721-5	68477-30-5	N
Distillates (petroleum), catalytic reformer fractionator residue, low-boiling; Gasoil - unspecified [The complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils approximately below 288°C (550°F).]	649-230-00-9	270-722-0	68477-31-6	N
Distillates (petroleum), highly refined middle; Gasoil - unspecified [A complex combination of hydrocarbons obtained by the subjection of a petroleum fraction to several of the following steps: filtration, centrifugation, atmospheric distillation, vacuum distillation, acidification, neutralization and clay treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C10 through C20.]	649-231-00-4	292-615-8	90640-93-0	N

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum) catalytic reformer, heavy arom. conc.; Gasoil - unspecified [A complex combination of hydrocarbons obtained from the distillation of a catalytically reformed petroleum cut. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C10 through C16 and boiling in the range of approximately 200°C to 300°C (392°F to 572°F).]	649-232-00-X	295-294-2	91995-34-5	N
Gas oils, paraffinic; Gasoil - unspecified [A distillate obtained from the redistillation of a complex combination of hydrocarbons obtained by the distillation of the effluents from a severe catalytic hydrotreatment of paraffins. It boils in the range of approximately 190°C to 330°C (374°F to 594°F).]	649-233-00-5	300-227-8	93924-33-5	N
Naphtha (petroleum), solvent-refined hydrodesulfurized heavy; Gasoil - unspecified	649-234-00-0	307-035-3	97488-96-5	N
Hydrocarbons, C16-20, hydrotreated middle distillate, distn. lights; Gasoil - unspecified [A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the treatment of a middle distillate with hydrogen. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C16 through C20 and boiling in the range of approximately 290°C to 350°C (554°F to 662°F). It produces a finished oil having a viscosity of 2 cSt at 100°C (212°F).]	649-235-00-6	307-659-6	97675-85-9	N
Hydrocarbons, C12-20, hydrotreated paraffinic, distn. lights; Gasoil - unspecified [A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the treatment of heavy paraffins with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C12 through C20 and boiling in the range of approximately 230°C to 350°C (446°F to 662°F). It produces a finished oil having a viscosity of 2 cSt at 100°C (212°F).]	649-236-00-1	307-660-1	97675-86-0	N
Hydrocarbons, C11-17, solvent-extd. light naphthenic; Gasoil - unspecified [A complex combination of hydrocarbons obtained by extraction of the aromatics from a light naphthenic distillate having a visciosity of 2.2 cSt at 40°C (104°F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C11 through C17 and boiling in the range of approximately 200°C to 300°C (392°F to 572°F).]	649-237-00-7	307-757-9	97722-08-2	N
Gas oils, hydrotreated; Gasoil - unspecified [A complex combination of hydrocarbons obtained from the redistillation of the effluents from the treatment of paraffins with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C27 and boiling in the range of approximately 330°C to 340°C (626°F to 644°F).]	649-238-00-2	308-128-1	97862-78-7	N
Distillates (petroleum), carbon-treated light paraffinic; Gasoil - unspecified [A complex combination of hydrocarbons obtained by the treatment of a petroleum oil fraction with activated charcoal for the removal of traces of polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C12 through C28.]	649-239-00-8	309-667-5	100683-97-4	N

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), intermediate paraffinic, carbon-treated; Gasoil - unspecified [A complex combination of hydrocarbons obtained by the treatment of petroleum with activated charcoal for the removal of trace polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C16 through C36.]	649-240-00-3	309-668-0	100683-98-5	N
Distillates (petroleum), intermediate paraffinic, clay-treated; Gasoil - unspecified [A complex combination of hydrocarbons obtained by the treatment of petroleum with bleaching earth for the removal of trace polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C16 through C36.]	649-241-00-9	309-669-6	100683-99-6	N
Alkanes, C12-26-branched and linear;	649-242-00-4	292-454-3	90622-53-0	N
Lubricating greases; Grease [A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. May contain organic salts of alkali metals, alkaline earth metals, and/or aluminium compounds.]	649-243-00-X	278-011-7	74869-21-9	N
Slack wax (petroleum); Slack wax [A complex combination of hydrocarbons obtained from a petroleum fraction by solvent crystallization (solvent dewaxing) or as a distillation fraction from a very waxy crude. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C20.]	649-244-00-5	265-165-5	64742-61-6	N
Slack wax (petroleum), acid-treated; Slack wax [A complex combination of hydrocarbons obtained as a raffinate by treatment of a petroleum slack wax fraction with sulfuric acid treating process. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C20.]	649-245-00-0	292-659-8	90669-77-5	N
Slack wax (petroleum), clay-treated; Slack wax [A complex combination of hydrocarbons obtained by treatment of a petroleum slack wax fraction with natural or modified clay in either a contacting or percolation process. It consists predominantly of saturated straight and branched hydrocarbons having carbon numbers predominantly greater than C20.]	649-246-00-6	292-660-3	90669-78-6	N
Slack wax (petroleum), hydrotreated; Slack wax [A complex combination of hydrocarbons obtained by treating slack wax with hydrogen in the presence of a catalyst. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C20.]	649-247-00-1	295-523-6	92062-09-4	N
Slack wax (petroleum), low-melting; Slack wax [A complex combination of hydrocarbons obtained from a petroleum fraction by solvent deparaffination. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]	649-248-00-7	295-524-1	92062-10-7	N

Substances	Index number	EEC number	CAS number	Notas
Slack wax (petroleum), low-melting, hydrotreated; Slack wax [A complex combination of hydrocarbons obtained by treatment of low-melting petroleum slack wax with hydrogen in the presence of a catalyst. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]	649-249-00-2	295-525-7	92062-11-8	N
Slack wax (petroleum), low-melting, carbon-treated; Slack wax [A complex combination of hydrocarbons obtained by the treatment of low-melting slack wax with activated carbon for the removal of trace polar constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]	649-250-00-8	308-155-9	97863-04-2	N
Slack wax (petroleum), low-melting, clay-treated; Slack wax [A complex combination of hydrocarbons obtained by the treatment of low-melting petroleum slack wax with bentonite for removal of trace polar constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]	649-251-00-3	308-156-4	97863-05-3	N
Slack wax (petroleum), low-melting, silicic acid-treated; Slack wax [A complex combination of hydrocarbons obtained by the treatment of low-melting petroleum slack wax with silicic acid for the removal of trace polar constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C12.]	649-252-00-9	308-158-5	97863-06-4	N
Slack wax (petroleum), carbon-treated; Slack wax [A complex combination of hydrocarbons obtained by treatment of petroleum slack wax with activated charcoal for the removal of trace polar constituents and impurities.]	649-253-00-4	309-723-9	100684-49-9	N
Petrolatum;Petrolatum [A complex combination of hydrocarbons obtained as a semi-solid from dewaxing paraffinic residual oil. It consists predominantly of saturated crystalline and liquid hydrocarbons having carbon numbers predominantly greater than C25.]	649-254-00-X	232-373-2	8009-03-8	N
Petrolatum (petroleum), oxidized;Petrolatum [A complex combination of organic compounds, predominantly high molecular weight carboxylic acids, obtained by the air oxidation of petrolatum.]	649-255-00-5	265-206-7	64743-01-7	N
Petrolatum (petroleum), alumina-treated;Petrolatum [A complex combination of hydrocarbons obtained when petrolatum is treated with Al2 O3 to remove polar components and impurities. It consists predominantly of saturated, crystalline, and liquid hydrocarbons having carbon numbers predominantly greater than C25.]	649-256-00-0	285-098-5	85029-74-9	N
Petrolatum (petroleum), hydrotreated;Petrolatum [A complex combination of hydrocarbons obtained as a semi-solid from dewaxed paraffinic residual oil treated with hydrogen in the presence of a catalyst. It consists predominantly of saturated microcrystalline and liquid hydrocarbons having carbon numbers predominantly greater than C20.]	649-257-00-6	295-459-9	92045-77-7	N

Substances	Index number	EEC number	CAS number	Notas
Petrolatum (petroleum), carbon-treated;Petrolatum [A complex combination of hydrocarbons obtained by the treatment of petroleum petrolatum with activated carbon for the removal of trace polar constituents and impurities. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly greater than C20.]	649-258-00-1	308-149-6	97862-97-0	N
Petrolatum (petroleum), silicic acid-treated;Petrolatum [A complex combination of hydrocarbons obtained by the treatment of petroleum petrolatum with silicic acid for the removal of trace polar constituents and impurities. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly greater than C20.]	649-259-00-7	308-150-1	97862-98-1	N
Petrolatum (petroleum), clay-treated;Petrolatum [A complex combination of hydrocarbons obtained by treatment of petrolatum with bleaching earth for the removal of traces of polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of greater than C25.]	649-260-00-2	309-706-6	100684-33-1	N
Gasoline, natural;Low boiling point naphtha [A complex combination of hydrocarbons separated from natural gas by processes such as refrigeration or absorption. It consists predominantly of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C8 and boiling in the range of approximately minus 20°C to 120°C (-4°F to 248°F).]	649-261-00-8	232-349-1	8006-61-9	P
Naphtha;Low boiling point naphtha [Refined, partly refined, or unrefined petroleum products by the distillation of natural gas. It consists of hydrocarbons having carbon numbers predominantly in the range of C5 through C6 and boiling in the range of approximately 100°C to 200°C (212°F to 392°F).]	649-262-00-3	232-443-2	8030-30-6	P
Ligroine;Low boiling point naphtha [A complex combination of hydrocarbons obtained by the fractional distillation of petroleum. This fraction boils in a range of approximately 20°C to 135°C (58°F to 275°F).]	649-263-00-9	232-453-7	8032-32-4	P
Naphtha (petroleum), heavy straight-run;Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in the range of approximately 65°C to 230°C (149°F to 446°F).]	649-264-00-4	265-041-0	64741-41-9	P
Naphtha (petroleum), full-range straight-run;Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 220°C (-4°F to 428°F).]	649-265-00-X	265-042-6	64741-42-0	P
Naphtha (petroleum), light straight-run;Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C10 and boiling in the range of approximately minus 20°C to 180°C (-4°F to 356°F).]	649-266-00-5	265-046-8	64741-46-4	P

Substances	Index number	EEC number	CAS number	Notas
Solvent naphtha (petroleum), light aliph.;Low boiling point naphtha [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C5 through C10 and boiling in the range of approximately 35°C to 160°C (95°F to 320°F).]	649-267-00-0	265-192-2	64742-89-8	P
Distillates (petroleum), straight-run light;Low boiling point naphtha [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C2 through C7 and boiling in the range of approximately -88°C to 99°C (-127°F to 210°F).]	649-268-00-6	270-077-5	68410-05-9	P
Gasoline, vapor-recovery;Low boiling point naphtha [A complex combination of hydrocarbons separated from the gases from vapor recovery systems by cooling. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately -20°C to 196°C (-4°F to 384°F).]	649-269-00-1	271-025-4	68514-15-8	P
Gasoline, straight-run, topping-plant;Low boiling point naphtha [A complex combination of hydrocarbons produced from the topping plant by the distillation of crude oil. It boils in the range of approximately 36,1°C to 193,3°C (97°F to 380°F).]	649-270-00-7	271-727-0	68606-11-1	P
Naphtha (petroleum), unsweetened;Low boiling point naphtha [A complex combination of hydrocarbons produced from the distillation of naphtha streams from various refinery processes. It consists of hydrocarbons having carbon numbers predominantly in the range of C5 through C12 and boiling in the range of approximately 0°C to 230°C (25°F to 446°F).]	649-271-00-2	272-186-3	68783-12-0	P
Distillates (petroleum), light straight-run gasoline fractionation stabilizer overheads;Low boiling point naphtha [A complex combination of hydrocarbons having carbon numbers predominantly in the range of C3 through C6..]	649-272-00-8	272-931-2	68921-08-4	P
Naphtha (petroleum), heavy straight run, arom.-contg.;Low boiling point naphtha [A complex combination of hydrocarbons obtained from a distillation process of crude petroleum. It consists predominantly of hydrocarbons having carbon numbers in the range of C8 through C12 and boiling in the range of approximately 130°C to 210°C (266°F to 410°F).]	649-273-00-3	309-945-6	101631-20-3	P
Naphtha (petroleum), full-range alkylate;Low boiling point modified naphtha [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C3 through C5. It consist of predominantly branched chain saturated hydro-carbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 220°C (194°F to 428°F).]	649-274-00-9	265-066-7	64741-64-6	P
Naphtha (petroleum), heavy alkylate;Low boiling point modified naphtha [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C3 to C5. It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C9 through C12 and boiling in the range of approximately 150°C to 220°C (302°F to 428°F).]	649-275-00-4	265-067-2	64741-65-7	P

Substances	Index number	EEC number	CAS number	Notas
Naphtha (petroleum), light alkylate;Low boiling point modified naphtha [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C3 through C5. It consists of predominantly branched chain saturated hydro-carbons having carbon numbers predominantly in the range of C7 through C10 and boiling in the range of aproximately 90°C to 160°C (194°F to 320°F).]	649-276-00-X	265-068-8	64741-66-8	P
Naphtha (petroleum), isomerization;Low boiling point modified naphtha [A complex combination of hydrocarbons obtained from catalytic isomerization of straight chain paraffinic C4 through C6 hydrocarbons. It consists predominantly of saturated hydrocarbons such as isobutane, isopentane, 2,2-dimethylbutane, 2-methylpentane, and 3-methylpentane.]	649-277-00-5	265-073-5	64741-70-4	P
Naphtha (petroleum), solvent-refined light;Low boiling point modified naphtha [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C5 through C11 and boiling in the range of approximately 35°C to 190°C (95°F to 374°F).]	649-278-00-0	265-086-6	64741-84-0	P
Naphtha (petroleum), solvent-refined heavy;Low boiling point modified naphtha [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°F to 446°F).]	649-279-00-6	265-095-5	64741-92-0	P
Raffinates (petroleum), catalytic reformer ethylene glycol-water countercurrent exts.;Low boiling point modified naphtha [A complex combination of hydrocarbons obtained as the raffinate from the UDEX extraction process on the catalytic reformer stream. It consists of saturated hydrocarbons having carbon numbers predominantly in the range of C6 through C9.]	649-280-00-1	270-088-5	68410-71-9	P
Raffinates (petroleum), reformer,Lurgi unit-sepd.;Low boiling point modified naphtha [The complex combination of hydrocarbons obtained as a raffinate from aLurgi separation unit. It consists predominantly of non-aromatic hydrocarbons with various small amounts of aromatic hydrocarbons having carbon numbers predominantly in the range of C6 through C8.]	649-281-00-7	270-349-3	68425-35-4	P
Naphtha (petroleum), full-range alkylate, butane-contg.;Low boiling point modified naphta [A complex combination of hydrocarbons produced by the distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C3 through C5. It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C7 through C12 with some butanes and boiling in the range of approximately 35°C to 200°C (95°F to 428°F).]	649-282-00-2	271-267-0	68527-27-5	P
Distillates (petroleum), naphtha steam cracking-derived, solvent-refined light hydrotreated;Low boiling point modified naphtha [A complex combination of hydrocarbons obtained as the raffinates from a solvent extraction process of hydrotreated light distillate from steam-cracked naphtha.]	649-283-00-8	295-315-5	91995-53-8	P

Substances	Index number	EEC number	CAS number	Notas
Naphtha (petroleum), C4-12 butane-alkylate, isooctane-rich;Low boiling point modified naphtha [A complex combination of hydrocarbons obtained by alkylation of butanes. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C4 through C12, rich in isooctane, and boiling in the range of approximately 35°C to 210°C (95°F to 410°F).]	649-284-00-3	295-430-0	92045-49-3	P
Hydrocarbons, hydrotreated light naphtha distillates, solvent-refined;Low boiling point modified naphtha [A combination of hydrocarbons obtained from the distillation of hydrotreated naphtha followed by a solvent extraction and distillation process. It consists predominantly of saturated hydrocarbons boiling in the range of approximately 94°C to 99°C (201°F to 210°F).]	649-285-00-9	295-436-3	92045-55-1	P
Naphtha (petroleum), isomerization, C6-fraction;Low boiling point modified naphtha [A complex combination of hydrocarbons obtained by distillation of a gasoline which has been catalytically isomerized. It consists predominantly of hexane isomers boiling in the range of approximately 60°C to 66°C (140°F to 151°F).]	649-286-00-4	295-440-5	92045-58-4	P
Hydrocarbons, C6-7, naphtha-cracking, solvent-refined;Low boiling point modified naphtha [A complex combination of hydrocarbons obtained by the sorption of benzene from a catalytically fully hydrogenated benzene-rich hydrocarbon cut that was distillatively obtained from prehydrogenated cracked naphtha. It consists predominantly of paraffinic and naphthenic hydrocarbons having carbon numbers predominantly in the range of C6 through C7 and boiling in the range of approximately 70°C to 100°C (158°F to 212°F).]	649-287-00-X	295-446-8	92045-64-2	P
Hydrocarbons, C6-rich, hydrotreated light naphtha distillates, solvent-refined;Low boiling point modified naphtha [A complex combination of hydrocarbons obtained by distillation of hydrotreated naphtha followed by solvent extraction. It consists predominantly of saturated hydrocarbons and boiling in the range of approximately 65°C to 70°C (149°F to 158°F).]	649-288-00-5	309-871-4	101316-67-0	P
Naphtha (petroleum), heavy catalytic cracked;Low boiling point cat-cracked naphtha [A complex combination of hydrocarbons produced by a distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in the range of approximately 65°C to 230°C (148°F to 446°F). It contains a relatively large proportion of unsaturated hydrocarbons.]	649-289-00-0	265-055-7	64741-54-4	P
Naphtha (petroleum), light catalytic cracked;Low boiling point cat-cracked naphtha [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F). It contains a relatively large proportion of unsaturated hydrocarbons.]	649-290-00-6	265-056-2	64741-55-5	P
Hydrocarbons, C3-11, catalytic cracker distillates;Low boiling point cat-cracked naphtha [A complex combination of hydrocarbons produced by the distillations of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C11 and boiling in a range approximately up to 204°C (400°F).]	649-291-00-1	270-686-6	68476-46-0	P
Naphtha (petroleum), catalytic cracked light distd.;Low boiling point cat-cracked naphtha [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	649-292-00-7	272-185-8	68783-09-5	P

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), naphtha steam cracking-derived, hydrotreated light arom.;Low boiling point cat-cracked naphtha. [A complex combination of hydrocarbons obtained by treating a light distillate from steam-cracked naphtha. It consists predom-inantly of aromatic hydrocarbons.]	649-293-00-2	295-311-3	91995-50-5	P
Naphtha (petroleum), heavy catalytic cracked, sweetened;Low boiling point cat-cracked naphtha [A complex combination of hydrocarbons obtained by subjecting a catalytic cracked petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in the range of approximately 60°C to 200°C (140°F to 392°F).]	649-294-00-8	295-431-6	92045-50-6	P
Naphtha (petroleum), light catalytic cracked sweetened;Low boiling point cat-cracked naphtha [A complex combination of hydrocarbons obtained by subjecting naphtha from a catalytic cracking process to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons boiling in a range of approxim-ately 35°C to 210°C (95°F to 410°F).]	649-295-00-3	295-441-0	92045-59-5	P
Hydrocarbons, C8-12, catalytic-cracking, chem. neutralized;Low boiling point cat-cracked naphtha [A complex combination of hydrocarbons produced by the distillation of a cut from the catalytic cracking process, having undergone an alkaline washing. It consists predominantly of hydrocarbons having carbon numbers in the range of C8 through C12 and boiling in the range of approximately 130°C to 210°C (266°F to 410°F).]	649-296-00-9	295-794-0	92128-94-4	P
Hydrocarbons, C8-12, catalytic cracker distillates;Low boiling point cat-cracked naphtha [A complex combination of hydrocarbons obtained by distillation of products from a catalytic cracking process. It consists pre-dominantly of hydrocarbons having carbon numbers predominantly in the range of C8 through C12 and boiling in the range of approximately 140°C to 210°C (284°F to 410°F).]	649-297-00-4	309-974-4	101794-97-2	P
Hydrocarbons, C8-12, catalytic cracking, chem. neutralized, sweetened;Low boiling point cat-cracked naphtha	649-298-00-X	309-987-5	101896-28-0	P
Naphtha (petroleum), light catalytic reformed;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons produced from the distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C5 through C11 and boiling in the range of approximately 35°C to 190°C (95°F to 374°F). It contains a relatively large proportion of aromatic and branched chain hydrocarbons. This stream may contain 10 vol. % or more benzene.]	649-299-00-5	265-065-1	64741-63-5	P
Naphtha (petroleum), heavy catalytic reformed;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons produced from the distillation of products from a catalytic reforming process. It consists of predominantly aromatic hydrocarbons having numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°F to 446°F).]	649-300-00-9	265-070-9	64741-68-0	P
Distillates (petroleum), catalytic reformed depentanizer;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons from the distillation of products from a catalytic reforming process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 through C6 and boiling in the range of approximately -49°C to 63°C (-57°F to 145°F).]	649-301-00-4	270-660-4	68475-79-6	P

Substances	Index number	EEC number	CAS number	Notas
Hydrocarbons, C2-6, C6-8 catalytic reformer;Low boiling point cat-reformed naphtha	649-302-00-X	270-687-1	68476-47-1	P
Residues (petroleum), C6-8 catalytic reformer;Low boiling point cat-reformed naphtha [A complex residuum from the catalytic reforming of C6-8 feed. It consists of hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]	649-303-00-5	270-794-3	68478-15-9	P
Naphtha (petroleum), light catalytic reformed, arom.-free;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons obtained from distillation of products from a catalytic reforming process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C8 and boiling in the range of approximately 35°C to 120°C (95°F to 248°F). It contains a relatively large proportion of branched chain hydrocarbons with the aromatic components removed.]	649-304-00-0	270-993-5	68513-03-1	P
Distillates (petroleum), catalytic reformed straight-run naphtha overheads;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha followed by the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]	649-305-00-6	271-008-1	68513-63-3	P
Petroleum products, hydrofiner-powerformer reformates;Low boiling point cat-reformed naphtha [The complex combination of hydrocarbons obtained in a hydrofiner-powerformer process and boiling in a range of approximately 27°C to 210°C (80°F to 410°F).]	649-306-00-1	271-058-4	68514-79-4	P
Naphtha (petroleum, full-range reformed;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C5 through C12 and boiling in the range of approximately 35°C to 230°C (95°F to 446°F).]	649-307-00-7	272-895-8	68919-37-9	P
Naphtha (petroleum), catalytic reformed;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons produced by the distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C12 and boiling in the range of approximately 30°C to 220°C (90°F to 430°F). It contains a relatively large proportion of aromatic and branched chain hydrocarbons. This stream may contain 10 vol.% or more benzene.]	649-308-00-2	273-271-8	68955-35-1	P
Distillates (petroleum), catalytic reformed hydrotreated light, C8-12 arom. fraction;Low boiling point cat-reformed naphtha [A complex combination of alkylbenzenes obtained by the catalytic reforming of petroleum naphtha. It consists predominantly of alkylbenzenes having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 160°C to 180°C (320°F to 356°F).]	649-309-00-8	285-509-8	85116-58-1	P
Aromatic hydrocarbons, C8, catalytic reforming-derived;Low boiling point cat-reformed naphtha	649-310-00-3	295-279-0	91995-18-5	P

Substances	Index number	EEC number	CAS number	Notas
Aromatic hydrocarbons, C7-12, C8-rich;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C12 (primarily C8) and can contain nonaromatic hydrocarbons, both boiling in the range of approximately 130°C to 200°C (266°F to 392°F).]	649-311-00-9	297-401-8	93571-75-6	P
Gasoline, C5-11, high-octane stabilized reformed;Low boiling point cat-reformed naphtha [A complex high octane combination of hydrocarbons obtained by the catalytic dehydrogenation of a predominantly naphthenic naphtha. It consists predominantly of aromatics and non-aromatics having carbon numbers predominantly in the range of C5 through C11 and boiling in the range of approximately 45°C to 185°C (113°F to 365°F).]	649-312-00-4	297-458-9	93572-29-3	P
Hydrocarbons, C7-12, C9-arom.-rich, reforming heavy fraction;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 120°C to 210°C (248°F to 380°F) and C9 and higher aromatic hydrocarbons.]	649-313-00-X	297-465-7	93572-35-1	P
Hydrocarbons, C5-11, nonaroms.-rich, reforming light fraction;Low boiling point cat-reformed naphtha [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C5 to C11 and boiling in the range of approximately 35°C to 125°C (94°F to 257°F), benzene and toluene.]	649-314-00-5	297-466-2	93572-36-2	P
Foots oil (petroleum), silicic acid-treated; Foots oil [A complex combination of hydrocarbons obtained by the treatment of Foots oil with silicic acid for removal of trace constituents and impurities. It consists predominantly of straight chain hydrocarbons having carbon numbers predominantly greater than C12.]	649-315-00-0	308-127-6	97862-77-6	L
Naphtha (petroleum), light thermal cracked;Low boiling point thermally cracked naphtha [A complex combination of hydrocarbons from distillation of products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C4 through C8 and boiling in the range of approximately minus 10°C to 130°C (14°F to 266°F).]	649-316-00-6	265-075-6	64741-74-8	P
Naphtha (petroleum), heavy thermal cracked;Low boiling point thermally cracked naphtha [A complex combination of hydrocarbons from distillation of the products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in the range of approximately 65°C to 220°C (148°F to 428°F).]	649-317-00-1	265-085-0	64741-83-9	P
Distillates (petroleum), heavy arom.;Low boiling point thermally cracked naphtha [The complex combination of hydrocarbons from the distillation of the products from the thermal cracking of ethane and propane. This higher boiling fraction consists predominantly of C5-C7 aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having carbon number predominantly of C5. This stream may contain benzene.]	649-318-00-7	267-563-4	67891-79-6	P

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), light arom.;Low boiling point thermally cracked naphtha [The complex combination of hydrocarbons from the distillation of the products from the thermal cracking of ethane and propane. This lower boiling fraction consists predominantly of C5-C7 aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having a carbon number predominantly of C5. This stream may contain benzene.]	649-319-00-2	267-565-5	67891-80-9	P
Distillates (petroleum), naphtha-raffinate pyrolyzate-derived, gasoline-blending;Low boiling point thermally cracked naphtha [The complex combination of hydrocarbons obtained by the pyrolysis fractionation at 816°C (1500°F) of naphtha and raffinate. It consists predominantly of hydrocarbons having a carbon number of C9 and boiling at approximately 204°C (400°F).]	649-320-00-8	270-344-6	68425-29-6	P
Aromatic hydrocarbons, C6-8, naphtha-raffinate pyrolyzate-derived;Low boiling point thermally cracked naphtha [A complex combination of hydrocarbons obtained by the fractionation pyrolysis at 816°C (1500°F) of naphtha and raffinate. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C6 through C8, including benzene.]	649-321-00-3	270-658-3	68475-70-7	P
Distillates (petroleum), thermal cracked naphtha and gas oil;Low boiling point thermally cracked naphtha [A complex combination of hydrocarbons produced by distillation of thermally cracked naphtha and/or gas oil. It consists predominantly of olefinic hydrocarbons having a carbon number of C5 and boiling in the range of approximately 33°C to 60°C (91°F to 140°F).]	649-322-00-9	271-631-9	68603-00-9	P
Distillates (petroleum), thermal cracked naphtha and gas oil, C5-dimer-contg.;Low boiling point thermally cracked naphtha [A complex combination of hydrocarbons produced by the extractive distillation of thermal cracked naphtha and/or gas oil. It consists predominantly of hydrocarbons having a carbon number of C5 with some dimerized C5 olefins and boiling in the range of approximately 33°C to 184°C (91°F to 363°F).]	649-323-00-4	271-632-4	68603-01-0	P
Distillates (petroleum), thermal cracked naphtha and gas oil, extractive;Low boiling point thermally cracked naphtha [A complex combination of hydrocarbons produced by the extractive distillation of thermal cracked naphtha and/or gas oil. It consists of paraffinic and olefinic hydrocarbons, predominantly isoamylenes such as 2-methyl-1-butene and 2-methyl-2-butene and boiling in the range of approximately 31°C to 40°C (88°F to 104°F).]	649-324-00-X	271-634-5	68603-03-2	P
Distillates (petroleum), light thermal cracked, debutanized arom.;Low boiling point thermally cracked naphtha [A complex combination of hydrocarbons produced by the distillation of products from a thermal cracking process. It consists predominantly of aromatic hydrocarbons, primarily benzene.]	649-325-00-5	273-266-0	68955-29-3	P
Naphtha (petroleum), light thermal cracked, sweetened;Low boiling point thermally cracked naphtha [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate from the high temperature thermal cracking of heavy oil fractions to a sweetening process to convert mercaptans. It consists predominantly of aromatics, olefins and saturated hydrocarbons boiling in the range of approximately 20°C to 100°C (68°F to 212°F).]	649-326-00-0	295-447-3	92045-65-3	P

Substances	Index number	EEC number	CAS number	Notas
Naphtha (petroleum), hydrotreated heavy;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C13 and boiling in the range of approximately 65°C to 230°C (149°F to 446°F).]	649-327-00-6	265-150-3	64742-48-9	P
Naphtha (petroleum), hydrotreated light;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F).]	649-328-00-1	265-151-9	64742-49-0	P
Naphtha (petroleum), hydrodesulfurized light;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F).]	649-329-00-7	265-178-6	64742-73-0	P
Naphtha (petroleum), hydrodesulfurized heavy;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°F to 446°F).]	649-330-00-2	265-185-4	64742-82-1	P
Distillates (petroleum), hydrotreated middle, intermediate boiling;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by the distillation of products from a middle distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C5 through C10 and boiling in the range of approximately 127°C to 188°C (262°F to 370°F).]	649-331-00-8	270-092-7	68410-96-8	P
Distillates (petroleum), light distillate hydrotreating process, low-boiling;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by the distillation of products from the light distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C9 and boiling in the range of approximately 3°C to 194°C (37°F to 382°F).]	649-332-00-3	270-093-2	68410-97-9	P
Distillates (petroleum), hydrotreated heavy naphtha, deisohexanizer overheads;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by distillation of the products from a heavy naphtha hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C6 and boiling in the range of approximately -49°C to 68°C (-57°F to 155°F).]	649-333-00-9	270-094-8	68410-98-0	P
Solvent naphtha (petroleum), light arom., hydrotreated;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]	649-334-00-4	270-988-8	68512-78-7	P

Substances	Index number	EEC number	CAS number	Notas
Naphtha (petroleum), hydrodesulfurized thermal cracked light;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by fractionation of hydrodesulfurized thermal cracker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 to C11 and boiling in the range of approximately 23°C to 195°C (73°F to 383°F).]	649-335-00-X	285-511-9	85116-60-5	P
Naphtha (petroleum), hydrotreated light, cycloalkane-contg.;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained from the distillation of a petroleum fraction. It consists predominantly of alkanes and cycloalkanes boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F).]	649-336-00-5	285-512-4	85116-61-6	P
Naphtha (petroleum), heavy steam-cracked, hydrogenated;Low boiling point hydrogen treated naphtha	649-337-00-0	295-432-1	92045-51-7	P
Naphtha (petroleum), hydrodesulfurized full-range;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately 30°C to 250°C (86°F to 482°F).]	649-338-00-6	295-433-7	92045-52-8	P
Naphtha (petroleum), hydrotreated light steam-cracked;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by treating a petroleum fraction, derived from a pyrolysis process, with hydrogen in the presence of a catalyst. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C5 through C11 and boiling in the range of approximately 35°C to 190°C (95°F to 374°F).]	649-339-00-1	295-438-4	92045-57-3	P
Hydrocarbons, C4-12, naphtha-cracking, hydrotreated;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by distillation from the product of a naphtha steam cracking process and subsequent catalytic selective hydrogenation of gum formers. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C12 and boiling in the range of approximately 30°C to 230°C (86°F to 446°F).]	649-340-00-7	295-443-1	92045-61-9	P
Solvent naphtha (petroleum), hydrotreated light naphthenic;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of cycloparaffinic hydrocarbons having carbon numbers predominantly in the range of C6 through C7 and boiling in the range of approximately 73°C to 85°C (163°F to 185°F).]	649-341-00-2	295-529-9	92062-15-2	P
Naphtha (petroleum), light steam-cracked, hydrogenated;Low boiling point hydrogen treated naphtha [A complex comination of hydrocarbons produced from the separation and subsequent hydrogenation of the products of a steam-cracking process to produce ethylene. It consists predominantly of saturated and unsaturated paraffins, cyclic paraffins and cyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C4 through C10 and boiling in the range of approximately 50°C to 200°C (122°F to 392°F). The proportion of benzene hydrocarbons may vary up to 30 wt. % and the stream may also contain small amounts of sulphur and oxygenated compounds.]	649-342-00-8	296-942-7	93165-55-0	P
Hydrocarbons, C6-11, hydrotreated, dearomatized;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained as solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.]	649-343-00-3	297-852-0	93763-33-8	P

Substances	Index number	EEC number	CAS number	Notas
Hydrocarbons, C9-12, hydrotreated, dearomatized;Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained as solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.]	649-344-00-9	297-853-6	93763-34-9	P
Stoddard solvent;Low boiling point naphtha - unspecified [A colourless, refined petroleum distillate that is free from rancid or objectionable odors and that boils in a range of approximately 300°F to 400°F.]	649-345-00-4	232-489-3	8052-41-3	P
Natural gas condensates (petroleum);Low boiling point naphtha - unspecified [A complex combination of hydrocarbons separated as a liquid from natural gas in a surface separator by retrograde condensation. It consists mainly of hydrocarbons having carbon numbers predominantly in the range of C2 to C20. It is a liquid at atmospheric temperature and pressure.]	649-346-00-X	265-047-3	64741-47-5	P
Natural gas (petroleum), raw liq. mix;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons separated as a liquid from natural gas in a gas recycling plant by processes such as refrigeration or absorption. It consists mainly of saturated aliphatic hydrocarbons having carbon numbers in the range of C2 through C8.]	649-347-00-5	265-048-9	64741-48-6	P
Naphtha (petroleum), light hydrocracked;Low boiling naphtha - unspecified [A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C4 through C10, and boiling in the range of approximately minus 20°C to 180°C (-4°F to 356°F).]	649-348-00-0	265-071-4	64741-69-1	P
Naphtha (petroleum), heavy hydrocracked;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C6 through C12, and boiling in the range of approximately 65°C to 230°C (148°F to 446°F).]	649-349-00-6	265-079-8	64741-78-2	P
Naphtha (petroleum), sweetened;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C12 and boiling in the range of approximately minus 10°C to 230°C (14°F to 446°F).]	649-350-00-1	265-089-2	64741-87-3	P
Naphtha (petroleum), acid-treated;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°C to 446°F).]	649-351-00-7	265-115-2	64742-15-0	P
Naphtha (petroleum), chemically neutralized heavy;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C12 and boiling in the range of approximately 65°C to 230°C (149°F to 446°F).]	649-352-00-2	265-122-0	64742-22-9	P

Substances	Index number	EEC number	CAS number	Notas
Naphtha (petroleum), chemically neutralized light;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F).]	649-353-00-8	265-123-6	64742-23-0	P
Naphtha (petroleum), catalytic dewaxed;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained from the catalytic dewaxing of a petroleum fraction. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C12 and boiling in the range of approximately 35°C to 230°C (95°F to 446°F).]	649-354-00-3	265-170-2	64742-66-1	P
Naphtha (petroleum), light steam-cracked;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by the distillation of the products from a steam cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F). This stream is likely to contain 10 vol.% or more benzene.]	649-355-00-9	265-187-5	64742-83-2	P
Solvent naphtha (petroleum), light arom.;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]	649-356-00-4	265-199-0	64742-95-6	P
Aromatic hydrocarbons, C6-10, acid-treated, neutralized;Low boiling point naphtha - unspecified	649-357-00-X	268-618-5	68131-49-7	P
Distillates (petroleum), C3-5, 2-methyl-2-butene-rich;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons from the distillation of hydrocarbons usually ranging in carbon numbers from C3 through C5, predominantly isopentane and 3-methyl-1-butene. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C3 through C5, predominantly 2-methyl-2-butene.]	649-358-00-5	270-725-7	68477-34-9	P
Distillates (petroleum), polymd. steam-cracked petroleum distillates, C 5-12 fraction;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained from the distillation of polymerized steam-cracked petroleum distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C12.]	649-359-00-0	270-735-1	68477-50-9	P
Distillates (petroleum), steam-cracked, C5-12 fraction;Low boiling point naphtha - unspecified [A complex combination of organic compounds obtained by the distillation of products from a steam cracking process. It consists of unsaturated hydrocarbons having carbon numbers predominantly in the range of C5 through C12.]	649-360-00-6	270-736-7	68477-53-2	P
Distillates (petroleum), steam-cracked, C5-10 fraction, mixed with light steam-cracked petroleum naphtha C5 fraction;Low boiling point naphtha - unspecified	649-361-00-1	270-738-8	68477-55-4	P

Substances	Index number	EEC number	CAS number	Notas
Extracts (petroleum), cold-acid, C4-6;Low boiling point naphtha - unspecified [A complex combination of organic compounds produced by cold acid unit extraction of saturated and unsaturated aliphatic hydrocarbons usually ranging in carbon numbers from C3 through C6, predominantly pentanes and amylenes. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers in the range of C4 through C6, predominantly C5.]	649-362-00-7	270-741-4	68477-61-2	P
Distillates (petroleum), dependanizer overheads;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained from a catalytic cracked gas stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C6.]	649-363-00-2	270-771-8	68477-894-4	P
Residues (petroleum), butane splitter bottoms;Low boiling point naphtha - unspecified [A complex residuum from the distillation of butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C6.]	649-364-00-8	270-791-7	68478-12-6	P
Residual oils (petroleum), deisobutanizer tower;Low boiling point naphtha - unspecified [A complex residuum from the atmospheric distillation of the butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C6.]	649-365-00-3	270-795-9	68478-16-0	P
Naphtha (petroleum), full-range coker;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons produced by the distillation of products from a fluid coker. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C4 through C15 and boiling in the range of approximately 43°C to 250°C (110°F to 500°F).]	649-366-00-9	270-991-4	68513-02-0	P
Naphtha (petroleum), steam-cracked middle arom.;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons produced by the distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 130°C to 220°C (266°F to 428°F).]	649-367-00-4	271-138-9	68516-20-1	P
Naphtha (petroleum), clay-treated full-range straight-run;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons resulting from treatment of full-range straight-run naphtha with natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately -20°C to 220°C (-4°F to 429°F).]	649-368-00-X	271-262-3	68527-21-9	P
Naphtha (petroleum), clay-treated light straight-run;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons resulting from treatment of light straight-run naphtha with a natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities, present. It consists of hydro-carbons having carbon numbers predominantly in the range of C7 through C10 and boiling in the range of approximately 93°C to 180°C (200°F to 356°F.]	649-369-00-5	271-263-9	68527-22-0	P

Substances	Index number	EEC number	CAS number	Notas
Naphtha (petroleum), light steam-cracked arom.;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C9 and boiling in the range of approximately 110°C to 165°C (230°F to 329°F).]	649-370-00-0	271-264-4	68527-23-1	P
Naphtha (petroleum), light steam-cracked, debenzenized;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C4 through C12 and boiling in the range of approximately 80°C to 218°C (176°F to 424°F).]	649-371-00-6	271-266-5	68527-26-4	P
Naphtha (petroleum), arom.-contg.;Low boiling point naphtha - unspecified	649-372-00-1	271-635-0	68603-08-7	P
Gasoline, pyrolysis, debutanizer bottoms;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It consists of hydrocarbons having carbon numbers predominantly greater than C5.]	649-373-00-7	271-726-5	68606-10-0	P
Naphtha (petroleum), light, sweetened;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C3 through C6 and boiling in the range of approximately -20°C to 100°C (-4°F to 212°F).]	649-374-00-2	272-206-0	68783-66-4	P
Natural gas condensates;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons separated and/or condensed from natural gas during transportation and collected at the wellhead and/or from the production, gathering, transmission, and distribution pipelines in deeps, scrubbers, etc. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C2 through C8.]	649-375-00-8	272-896-3	68919-39-1	J
Distillates (petroleum), naphtha unifiner stripper;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons produced by stripping the products from the naphtha unifiner. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]	649-376-00-3	272-932-8	68921-09-5	P
Naphtha (petroleum), catalytic reformed light, arom.-free fraction;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons remaining after removal of aromatic compounds from catalytic reformed light naphtha in a selective absorption process. It consists predominantly of paraffinic and cyclic compounds having carbon numbers predominantly in the range of C5 to C8 and boiling in the range of approximately 66°C to 121°C (151°F to 250°F).]	649-377-00-9	285-510-3	85116-59-2	P
Gasoline;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons consisting primarily of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having carbon numbers predominantly greater than C3 and boiling in the range of 30°C to 260°C (86°F to 500°F).]	649-378-00-4	289-220-8	86290-81-5	P
Aromatic hydrocarbons, C7-8, dealkylation products, distn. residues;Low boiling point naphtha - unspecified	649-379-00-X	292-698-0	90989-42-7	P

Substances	Index number	EEC number	CAS number	Notas
Hydrocarbons, C4-6, dependanizer lights, arom. hydrotreater;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained as first runnings from the dependanizer column before hydrotreatment of the aromatic charges. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C4 through C6, predominantly pentanes and pentenes, and boiling in the range of approximately 25 C to 40 C (77°F to 104°F).]	649-380-00-5	295-298-4	91995-38-9	P
Distillates (petroleum), heat-soaked steam-cracked naphtha, C5-rich;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by distillation of heat-soaked steam-cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C4 through C6, predominantly C5.]	649-381-00-0	295-302-4	91995-41-4	P
Extracts (petroleum), catalytic reformed light naphtha solvent;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained as the extract from the solvent extraction of a catalytically reformed petroleum cut. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C7 through C8 and boiling in the range of approximately 100°C to 200°C (212°F to 392°F).]	649-382-00-6	295-331-2	91995-68-5	P
Naphtha (petroleum), hydrodesulfurized light, dearomatized;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by distillation of hydrodesulfurized and dearomatized light petroleum fractions. It consists predominantly of C7 paraffins and cycloparaffins boiling in a range of approximately 90°C to 100°C (194°F to 212°F).]	649-383-00-1	295-434-2	92045-53-9	P
Naphtha (petroleum), light, C5-rich, sweetened;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C5, predominantly C5, and boiling in the range of approximately minus 10°C to 35°C (14°F to 95°F).]	649-384-00-7	295-442-6	92045-60-8	P
Hydrocarbons, C8-11, naphtha-cracking, toluene cut;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by distillation from prehydrogenated cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C8 through C11 and boiling in the range of approximately 130°C to 205°C (266°F to 401°F).]	649-385-00-2	295-444-7	92045-62-0	P
Hydrocarbons, C4-11, naphtha-cracking, arom.-free;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained from prehydrogenated cracked naphtha after distillative separation of benzene- and toluene-containing hydrocarbon cuts and a higher boiling fraction. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range C4 through C11 and boiling in the range of approximately 30°C to 205°C (86°F to 401°F).]	649-386-00-8	295-445-2	92045-63-1	P
Naphtha (petroleum), light heat-soaked, steam-cracked;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by the fractionation of steam cracked naphtha after recovery from a heat soaking process. It consists predominantly of hydrocarbons having a carbon numbers predominantly in the range of C4 through C6 and boiling in the range of approximately 0°C to 80°C (32°F to 176°F.]	649-387-00-3	296-028-8	92201-97-3	P

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), C6-rich;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained from the distillation of a petroleum feedstock. It consists predominantly of hydrocarbons having carbon numbers of C5 through C7, rich in C6, and boiling in the range of approximately 60°C to 70°C (140°F to 158°F).]	649-388-00-9	296-903-4	93165-19-6	P
Gasoline, pyrolysis, hydrogenated;Low boiling point naphtha-unspecified [A distillation fraction from the hydrogenation of pyrolysis gasoline boiling in the range of approximately 20°C to 200°C (68°F to 392°F).]	649-389-00-4	302-639-3	94114-03-1	P
Distillates (petroleum), steam-cracked, C8-12 fraction, polymd., distn. lights;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by distillation of the polymerized C8 through C12 fraction from steam-cracked petroleum distillates. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C12.]	649-390-00-X	305-750-5	95009-23-7	P
Extracts (petroleum); heavy naphtha solvent, clay-treated;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by the treatment of heavy naphthic solvent petroleum extract with bleaching earth. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C6 through C18 and boiling in the range of approximately 80°C to 180°C (175 F to 356 F).]	649-391-00-5	308-261-5	97926-43-7	P
Naphtha (petroleum), light steam-cracked, debenzenized, thermally treated;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by the treatment and distillation of debenzenized light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 95°C to 200°C (203°F to 392°F).]	649-392-00-0	308-713-1	98219-46-6	P
Naphtha (petroleum), light steam-cracked, thermally treated;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by the treatment and distillation of light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C6 and boiling in the range of approximately 35°C to 80°C (95°F to 176°F).]	649-393-00-6	308-714-7	98219-47-7	P
Distillates (petroleum), C7-9, C8-rich, hydrodesulfurized dearomatized;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by the distillation of petroleum light fraction, hydrodesulfurized and dearomatized. It consists predominantly of hydrocarbons having carbon numbers in the range of C7 through C9, predominantly C8 paraffins and cycloparaffins, boiling in the range of approximately 120°C to 130°C (248°F to 266°F).]	649-394-00-1	309-862-5	101316-56-7	P
Hydrocarbons, C6-8, hydrogenated sorption-dearomatized, toluene raffination;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained during the sorptions of toluene from a hydrocarbon fraction from cracked gasoline treated with hydrogen in the presence of a catalyst: It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C6 through C8 and boiling in the range of approximately 80°C to 135°C (176°F to 275°F).]	649-395-00-7	309-870-9	101316-66-9	P

Substances	Index number	EEC number	CAS number	Notas
Naphtha (petroleum), hydrodesulfurized full-range coker;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by fractionation from hydrodesulfurized coker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 to C11 and boiling in the range of approximately 23°C to 196°C (73°F to 385°F).]	649-396-00-2	309-879-8	101316-76-1	P
Naphtha (petroleum), sweetened light;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C8 and boiling in the range of approximately 20°C to 130°C (68°F to 266°F).]	649-397-00-8	309-976-5	101795-01-1	P
Hydrocarbons, C3-6, C5-rich, steam-cracked naphtha;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by distillation of steam-cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C3 through C6, predominantly C5.]	649-398-00-3	310-012-0	102110-14-5	P
Hydrocarbons, C5-rich, dicyclopentadiene-contg.;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by distillation of the products from a stream-cracking process. It consists predominantly of hydrocarbons having carbon numbers of C5 and dicyclopentadiene and boiling in the range of approximately 30°C to 170°C (86°F to 338°F).]	649-399-00-9	310-013-6	102110-15-6	P
Residues (petroleum), steam-cracked light, arom.;Low boiling point naphtha - unspecified [A complex combination of hydrocarbons obtained by the distillation of the products of steam cracking or similar processes after taking off the very light products resulting in a residue starting with hydrocarbons having carbon numbers greater than C5. It consists predominantly of aromatic hydrocarbons having carbon numbers greater than C5 and boiling above approximately 40°C (104°F).]	649-400-00-2	310-057-6	102110-55-4	P
Hydrocarbons, C5, C5-6-rich;Low boiling point naphtha - unspecified	649-401-00-8	270-690-8	68476-50-6	P
Hydrocarbons, C5-rich;Low boiling point naphtha - unspecified	649-402-00-3	270-695-5	68476-55-1	P
Aromatic hydrocarbons, C8-10;LightOil Redistillate, high boiling	649-403-00-9	292-695-4	90989-39-2	P
Distillates (petroleum), light catalytic cracked; Cracked gasoil [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C25 and boiling in the range of approximately 150°C to 400°C (302°F to 752°F). It contains a relatively large proportion of bicyclic aromatic hydrocarbons.]	649-435-00-3	265-060-4	64741-59-9	
Distillates (petroleum), intermediate catalytic cracked; Cracked gasoil [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C30 and boiling in the range of approximately 205°C to 450°C (401°F to 842°F). It contains a relatively large proportion of tricyclic aromatic hydrocarbons.]	649-436-00-9	265-062-5	64741-60-2	

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), light thermal cracked; Cracked gasoil [A complex combination of hydrocarbons from the distillation of the products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C10 through C22 and boiling in the range of approximately 160°C to 370°C (320°F to 698°F).]	649-438-00-X	265-084-5	64741-82-8	
Distillates (petroleum), hydrodesulfurized light catalvtic cracked; Cracked gasoil [A complex combination of hydrocarbons obtained by treating light catalytic cracked distillates with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C25 and boiling in the range of approximately 150°C to 400°C (302°F to 752°F). It contains a relatively large proportion of bicyclic aromatic hydrocarbons.]	649-439-00-5	269-781-5	68333-25-5	
Distillates (petroleum), light steam-cracked naphtha; Cracked gasoil [A complex combination of hydrocarbons from the multiple distillation of products from a steam cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C10 through C18.]	649-440-00-0	270-662-5	68475-80-9	
Distillates (petroleum), cracked steam-cracked petroleum distillates; Cracked gasoil [A complex combination of hydrocarbons produced by distilling cracked steam cracked distillate and/or its fractionation products. It consists of hydrocarbons having carbon numbers predominently in the range of C10 to low molecular weight polymers.]	649-441-00-6	270-727-8	68477-38-3	
Gas oils (petroleum), steam-cracked; Cracked gasoil [A complex combination of hydrocarbons produced by distillation of the products from a steam cracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C9 and boiling in the range of from approximately 205°C to 400°C (400°F to 752°F).]	649-442-00-1	271-260-2	68527-18-4	
Distillates (petroleum), hydrodesulfurized thermal cracked middle; Cracked gasoil [A complex combination of hydrocarbons obtained by fractionation from hydrodesulfurized themal cracker distillate stocks. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C11 to C25 and boiling in the range of approximately 205°C to 400°C (401°F to 752°F).]	649-443-00-7	285-505-6	85116-53-6	
Gas oils (petroleum), thermal-cracked, hydrodesulfurized; Cracked gasoil	649-444-00-2	295-411-7	92045-29-9	
Residues (petroleum), hydrogenated steam-cracked naphtha; Cracked gasoil [A complex combination of hydrocarbons obtained as a residual fraction from the distillation of hydrotreated steam-cracked naphtha. It consists predominantly of hydrocarbons boiling in the range of approximately 200°C to 350°C (32°F to 662°F).]	649-445-00-8	295-514-7	92062-00-5	
Residues (petroleum), steam-cracked naphtha distn.; Cracked gasoil [A complex combination of hydrocarbons obtained as a column bottom from the separation of effluents from steam cracking naphtha at a high temperature. It boils in the range of approximately 147°C to 300°C (297°F to 572°F) and produces a finished oil having a viscosity of 18 cSt at 50°C.]	649-446-00-3	295-517-3	92062-04-9	

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), light catalytic cracked, thermally degraded; Cracked gasoil [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process which has been used as a heat transfer fluid. It consists predominantly of hydrocarbons boiling in the range of approximately 190°C to 340°C (374°F to 644°F). This stream is likely to contain organic sulfur compounds.]	649-447-00-9	295-991-1	92201-60-0	
Residues (petroleum), steam-cracked heat-soaked naphtha; Cracked gasoil [A complex combination of hydrocarbons obtained as residue from the distillation of steam cracked heat soaked naphtha and boiling in the range of approximately 150°C to 350°C (302°F to 662°F).]	649-448-00-4	297-905-8	93763-85-0	
Gas oils (petroleum), light vacuum, thermal-cracked hydrodesulfurized; Cracked gasoil [A complex combination of hydrocarbons obtained by catalytic dehydrosulfurization of thermal-cracked light vacuum petroleum. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C14 through C20 and boiling in the range of approximately 270°C to 370°C (518°F to 698°F).]	649-450-00-5	308-278-8	97926-59-5	
Distillates (petroleum), hydrodesulfurized middle coker; Cracked gasoil [A complex combination of hydrocarbons by fractionation from hydrodesulfurised coker distillate stocks. Is consists of hydro-carbons having carbon numbers predominantly in the range of C12 through C21 and boiling in the range of approximately 200°C to 360°C (392°F to 680°F).]	649-451-00-0	309-865-1	101316-59-0	
Distillates (petroleum), heavy steam-cracked; Cracked gasoil [A complex combination of hydrocarbons obtained by distillation of steam cracking heavy residues. It consists predominantly of highly alkylated heavy aromatic hydrocarbons boiling in the range of approximately 250°C to 400°C (482°F to 752°F).]	649-452-00-6	309-939-3	101631-14-5	
Distillates (petroleum), heavy hydrocracked; Baseoil - unspecified [A complex combination of hydrocarbons from the distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers in the range of C15-C39 and boiling in the range of approximately 260°C to 600°C (500°F to 1112°F).]	649-453-00-1	265-077-7	64741-76-0	L
Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil - unspecified [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C).]	649-454-00-7	265-090-8	64741-88-4	L
Distillates (petroleum), solvent-refined light paraffinic; Baseoil - unspecified [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C).]	649-455-00-2	265-091-3	64741-89-5	L
Residual oils (petroleum), solvent deasphalted; Baseoil - unspecified [A complex combination of hydrocarbons obtained as the solvent soluble fraction from C3-C4 solvent deasphalting of a residuum. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).]	649-456-00-8	265-096-0	64741-95-3	L

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), solvent-refined heavy naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt a 40°C). It contains relatively few normal paraffins.]	649-457-00-3	265-097-6	64741-96-4	L
Distillates (petroleum), solvent-refined light naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-458-00-9	265-098-1	64741-97-5	L
Residual oils (petroleum,) solvent-refined; Baseoil - unspecified [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).]	649-459-00-4	265-101-6	64742-01-4	L
Distillates (petroleum), clay-treated paraffinic; Baseoil - unspecified [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.]	649-460-00-X	265-137-2	64742-36-5	L
Distillates (petroleum), clay-treated light paraffinic; Baseoil - unspecified [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.]	649-461-00-5	265-138-8	64742-37-6	L
Residual oils (petroleum), clay-treated; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treatment of a residual oil with a natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydro-carbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).]	649-462-00-0	265-143-5	64742-41-2	L
Distillates (petroleum), clay-treated heavy naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-463-00-6	265-146-1	64742-44-5	L

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), clay-treated light naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-464-00-1	265-147-7	64742-45-6	L
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-465-00-7	265-155-0	64742-52-5	L
Distillates (petroleum), hydrotreated light naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-466-00-2	265-156-6	64742-53-6	L
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19 cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.]	649-467-00-8	265-157-1	64742-54-7	L
Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.]	649-468-00-3	265-158-7	64742-55-8	L
Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified [A complex comination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C).]	649-469-00-9	265-159-2	64742-56-9	L
Residual oils (petroleum), hydrotreated; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400°C (752°F).]	649-470-00-4	265-160-8	64742-57-0	L
Residual oils (petroleum), solvent-dewaxed; Baseoil - unspecified [A complex combination of hydrocarbons obtained by removal of long, branched chain hydrocarbons from a residual oil by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400°C (752°F).]	649-471-00-X	265-166-0	64742-62-7	L

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), solvent-dewaxed heavy naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly in the range of C20. through C50 and produces a finished oil of not less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-472-00-5	265-167-6	64742-63-8	L
Distillates (petroleum), solvent-dewaxed light naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly in the range C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-473-00-0	265-168-1	64742-64-9	L
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100°F (19 cSt at 40°C).]	649-474-00-6	265-169-7	64742-65-0	L
Naphthenic oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-475-00-1	265-172-3	64742-68-3	L
Naphthenic oils (petroleum), catalytic dewaxed light; Baseoil - unspecified [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-476-00-7	265-173-9	64742-69-4	L
Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C).]	649-477-00-2	265-174-4	64742-70-7	L
Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified [A complex combination of hydrocarbons obtained from a catalytic dewxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C).]	649-478-00-8	265-176-5	64742-71-8	L
Naphthenic oils (petroleum), complex dewaxed heavy; Baseoil - unspecified [A complex combination of hydrocarbons obtained by removing straight chain paraffin hydrocarbons as a solid by treatment with an agent such as urea. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil having a viscosity of at least 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-479-00-3	265-179-1	64742-75-2	L

Substances	Index number	EEC number	CAS number	Notas
Naphthenic oils (petroleum), complex dewaxed light; Baseoil - unspecified [A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil having a viscosity less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-480-00-9	265-180-7	64742-76-3	L
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity; Baseoil-unspecified [A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil, and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil having a viscosity of approximately 112 cSt at 40°C. It contains a relatively large proportion of saturated hydrocarbons.]	649-481-00-4	276-736-3	72623-85-9	L
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treating light vacuum gas oil and heavy vacuum gas oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil having a viscosity of approximately 15 cSt at 40°C. It contains a relatively large proportion of saturated hydrocabons.]	649-482-00-X	276-737-9	72623-86-0	L
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of approximately 32 cSt at 40°C. It contains a relatively large proportion of saturated hydrocarbons.]	649-483-00-5	276-738-4	72623-87-1	L
Lubricating oils; Baseoil - unspecified [A complex combination of hydrocarbons obtained from solvent extraction and dewaxing processes. It consists predominantly of saturated hydrocarbons having carbon numbers in the range C15 through C50.]	649-484-00-0	278-012-2	74869-22-0	L
Distillates (petroleum), complex dewaxed heavy paraffinci; Baseoil - unspecified [A complex combination of hydrocarbons obtained by dewaxing heavy paraffinic distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of equal to or greater than 100 SUS at 100 oF (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-485-00-6	292-613-7	90640-91-8	L
Distillates (petroleum), complex dewaxed light paraffinic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by dewaxing light paraffinic distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C12 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19 cSt at 40°C). It contains relatively few normal paraffins.]	649-486-00-1	292-614-2	90640-92-9	L

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), solvent dewaxed heavy paraffinic, clay-treated; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treating dewaxed heavy paraffinic distillate with neutral or modified clay in either a contacting or percolation process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50.]	649-487-00-7	292-616-3	90640-94-1	L
Hydrocarbons, C20-50, solvent dewaxed heavy paraffinic, hydrotreated; Baseoil - unspecified [A complex combination of hydrocarbons produced by treating dewaxed heavy paraffinic distillate with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50.]	649-488-00-2	292-617-9	90640-95-2	L
Distillates (petroleum), solvent dewaxed light paraffinic, clay-treated; Baseoil - unspecified [A complex combination of hydrocarbons resulting from treatment of dewaxed light paraffinic distillate with natural or modified clay in either a contacting or percolation process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30.]	649-489-00-8	292-618-4	90640-96-3	L
Distillates (petroleum), solvent dewaxed light paraffinic, hydrotreated; Baseoil - unspecified [A complex combination of hydrocarbons produced by treating a dewaxed light paraffinic distillate with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30.]	649-490-00-3	292-620-5	90640-97-4	L
Residual oils (petroleum), hydrotreated solvent dewaxed; Baseoil - unspecified	649-491-00-9	292-656-1	90669-74-2	L
Residual oils (petroleum), catalytic dewaxed; Baseoil - unspecified	649-492-00-4	294-843-3	91770-57-9	L
Distillates (petroleum), dewaxed heavy paraffinic, hydrotreated; Baseoil - unspecified [A complex combination of hydrocarbons obtained from an intensive treatment of dewaxed distillate by hydrogenation in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C25 through C39 and produces a finished oil with a viscosity of approximately 44 cSt at 50°C.]	649-493-00-X	295-300-3	91995-39-0	L
Distillates (petroleum), dewaxed light paraffinic, hydrotreated; Baseoil - unspecified [A complex combination of hydrocarbons obtained from an intensive treatment of dewaxed distillate by hydrogenation in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C21 through C29 and produces a finished oil with a viscosity of approximately 13 cSt at 50°C.]	649-494-00-5	295-301-9	91995-40-3	L
Distillates (petroleum), hydrocracked solvent-refined, dewaxed; Baseoil - unspecified [A complex combination of liquid hydrocarbons obtained by recrystallization of dewaxed hydrocracked solvent-refined petroleum distillates.]	649-495-00-0	295-306-6	91995-45-8	L
Distillates (petroleum), solvent-refined light naphthenic, hydrotreated; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst and removing the aromatic hydrocarbons by solvent extraction. It consists predominantly of naphthenic hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of between 13-15 cSt at 40°C.]	649-496-00-6	295-316-0	91995-54-9	L

Substances	Index number	EEC number	CAS number	Notas
Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified	649-497-00-1	295-423-2	92045-42-6	L
Lubricating oils (petroleum), hydrocracked nonarom. solvent-deparaffined; Baseoil - unspecified	649-498-00-7	295-424-8	92045-43-7	L
Residual oils (petroleum), hydrocracked acid-treated solvent-dewaxed; Baseoil - unspecified [A complex combination of hydrocarbons produced by solvent removal of paraffins from the residue of the distillation of acid-treated, hydrocracked heavy paraffins and boiling approximately above 380°C (716°F).]	649-499-00-2	295-499-7	92061-86-4	L
Paraffin oils (petroleum), solvent-refined dewaxed heavy; Baseoil - unspecified [A complex combination of hydrocarbons obtained from sulfur-containing paraffinic crude oil. It consists predominantly of a solvent refined deparaffinated lubricating oil with a viscosity of 65 cSt at 50°C.]	649-500-00-6	295-810-6	92129-09-4	L
Lubricating oils (petroleum), base oils, paraffinic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by refining of crude oil. It consists predominantly of aromatics, naphthenics and paraffinics and produces a finished oil with a viscosity of 120 SUS at 100°F (23 cSt at 40°C).]	649-501-00-1	297-474-6	93572-43-1	L
Hydrocarbons, hydrocracked paraffinic distn. residues, solvent-dewaxed; Baseoil - unspecified	649-502-00-7	297-857-8	93763-38-3	L
Hydrocarbons, C20-50, residual oil hydrogenation vacuum distillate; Baseoil - unspecified	649-503-00-2	300-257-1	93924-61-9	L
Distillates (petroleum), solvent-refined hydrotreated heavy; hydrogenated; Baseoil - unspecified	649-504-00-8	305-588-5	94733-08-1	L
Distillates (petroleum), solvent-refined hydrocracked light; Baseoil - unspecified [A complex combination of hydrocarbons obtained by solvent dearomatization of the residue of hydrocracked petroleum. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C18 through C27 and boiling in the range of approximately 370°C to 450°C (698°F to 842°F).]	649-505-00-3	305-589-0	94733-09-2	L
Lubricating oils (petroleum), C18-40, solvent-dewaxed hydrocracked distillate-based; Baseoil unspecified [A complex combination of hydrocarbons obtained by solvent deparaffination of the distillation residue from hydrocracked petroleum. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C18 through C40 and boiling in the range of approximately 370°C to 550°C (698°F to 1022°F).]	649-506-00-9	305-594-8	94733-15-0	L
Lubricating oils (petroleum), C18-40, solvent-dewaxed hydrogenated raffinate-based; Baseoil - unspecified [A complex combination of hydrocarbons obtained by solvent deparaffination of the hydrogenated raffinate obtained by solvent extraction of a hydrotreated petroleum distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C18 through C40 and boiling in the range of approximately 370°C to 550°C (698°F to 1022°F).]	649-507-00-4	305-595-3	94733-16-1	L
Hydrocarbons, C13-30, arom.-rich, solvent-extd. naphthenic distillate; Baseoil - unspecified	649-508-00-X	305-971-7	95371-04-3	L
Hydrocarbons, C16-32, arom. rich, solvent-extd. naphthenic distillate; Baseoil - unspecified	649-509-00-5	305-972-2	95371-05-4	L
Hydrocarbons, C37-68, dewaxed deasphalted hydrotreated vacuum distn. residues; Baseoil - unspecified	649-510-00-0	305-974-3	95371-07-6	L
Hydrocarbons, C37-65, hydrotreated deasphalted vacuum distn. residues; Baseoil - unspecified	649-511-00-6	305-975-9	95371-08-7	L

Substances	Index number	EEC number	CAS number	Notas
Distillates (petroleum), hydrocracked solvent-refined light; Baseoil - unspecified [A complex combination of hydrocarbons obtained by the solvent treatment of a distillate from hydrocracked petroleum distillates. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C18 through C27 and boiling in the range of approximately 370°C to 450°C (698°F to 842°F.]	649-512-00-1	307-010-7	97488-73-8	L
Distillates (petroleum), solvent-refined hydrogenated heavy; Baseoil - unspecified [A complex combination of hydrocarbons, obtained by the treatment of a hydrogenated petroleum distillate with a solvent. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C19 through C40 and boiling in the range of approximately 390°C to 550°C (734°F to 1022°F).]	649-513-00-7	307-011-2	97488-74-9	L
Lubricating oils (petroleum), C18-27, hydrocracked solvent-dewaxed; Baseoil - unspecified	649-514-00-2	307-034-8	97488-95-4	L
Hydrocarbons, C17-30, hydrotreated solvent-deasphalted atm. distn. residue, distn. lights; Baseoil - unspecified [A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the treatment of a solvent deasphalted short residue with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C30 and boiling in the range of approximately 300°C to 400°C (572°F to 752°F). It produces a finished oil having a viscosity of 4 cSt at approximately 100°C (212°F).]	649-515-00-8	307-661-7	97675-87-1	L
Hydrocarbons, C17-40, hydrotreated solvent-deasphalted distn. residue, vacuum distn. lights; Baseoil - unspecified [A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the catalytic hydrotreatment of a solvent deasphalted short residue having a viscosity of 8 cSt at approximately 100°C (212°F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C40 and boiling in the range of approximately 300°C to 500°C (592°F to 932°F).]	649-516-00-3	307-755-8	97722-06-0	L
Hydrocarbons, C13-27, solvent-extd. light naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by extraction of the aromatics from a light naphthenic distillate having a viscosity of 9.5 cSt at 40°C (104°F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C13 through C27 and boiling in the range of approximately 240°C to 400°C (464°F to 752°F.]	649-517-00-9	307-758-4	97722-09-3	L
Hydrocarbons, C14-29, solvent-extd. light naphthenic; Baseoil - unspecified [A complex combination of hydrocarbons obtained by extraction of the aromatics from a light naphthenic distillate having a viscosity of 16 cSt at 40°C (104°F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C14 through C29 and boiling in the range of approximately 250°C to 425°C (482°F to 797°F).]	649-518-00-4	307-760-5	97722-10-6	L
Hydrocarbons, C27-42, dearomatized; Baseoil - unspecified	649-519-00-X	308-131-8	97862-81-2	L
Hydrocarbons, C17-30, hydrotreated distillates, distn. lights; Baseoil - unspecified	649-520-00-5	308-132-3	97862-82-3	L
Hydrocarbons, C27-45, naphthenic vacuum distn.; Baseoil - unspecified	649-521-00-0	308-133-9	97862-83-4	L
Hydrocarbons, C27-45, dearomatized; Baseoil - unspecified	649-522-00-6	308-287-7	97926-68-6	L
Hydrocarbons, C20-58, hydrotreated; Baseoil - unspecified	649-523-00-1	308-289-8	97926-70-0	L

Substances	Index number	EEC number	CAS number	Notas
Hydrocarbons, C27-42, naphthenic; Baseoil - unspecified	649-524-00-7	308-290-3	97926-71-1	L
Residual oils (petroleum), carbon-treated solvent-dewaxed; Baseoil - unspecified [A complex combination of hydrocarbons obtained by the treatment of solvent-dewaxed petroleum residual oils with activated charcoal for the removal of trace polar constituents and impurities.]	649-525-00-2	309-710-8	100684-37-5	L
Residual oils (petroleum), clay-treated solvent-dewaxed; Baseoil - unspecified [A complex combination of hydrocarbons obtained by treatment of solvent-dewaxed petroleum residual oils with bleaching earth for the removal of trace polar constituents and impurities.]	649-526-00-8	309-711-3	100684-38-6	L
Lubricating oils (petroleum), C25, solvent-extd., deasphalted, dewaxed, hydrogenated; Baseoil - unspecified [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of vacuum distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C25 and produces a finished oil with a viscosity in the order of 32 cSt to 37 cSt at 100°C (212°F).]	649-527-00-3	309-874-0	101316-69-2	L
Lubricating oils (petroleum), C17-32, solvent-extd., dewaxed, hydrogenated; Baseoil - unspecified [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C32 and produced a finished oil with a viscosity in the order of 17 cSt to 23 cSt at 40°C (104°F.]	649-528-00-9	309-875-6	101316-70-5	L
Lubricating oils (petroleum), C20-35, solvent-extd., dewaxed, hydrogenated; Baseoil - unspecified [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C35 and produces a finished oil with a viscosity in the order of 37 cSt to 44 cSt at 40°C (104°F).]	649-529-00-4	309-876-1	101316-71-6	L
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated; Baseoil - unspecified [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C24 through C50 and produces a finished oil with a viscosity in the order of 16 cSt to 75 cSt at 40°C (104°F).]	649-530-00-X	309-877-7	101316-72-7	L
Extracts (petroleum), heavy naphthenic distillate solvent, arom. conc.; Distillate aromatic extract (treated) [An aromatic concentrate produced by adding water to heavy naphthenic distillate solvent extract and extraction solvent.]	649-531-00-5	272-175-3	68783-00-6	L
Extracts (petroleum), solvent-refined heavy paraffinic distillate solvent; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained as the extract from the re-extraction of solvent-refined heavy paraffinic distillate. It consists of saturated and aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C50.]	649-532-00-0	272-180-0	68783-04-0	L
Extracts (petroleum), heavy paraffinic distillates, solvent-deasphalted; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained as the extract from a solvent extraction of heavy paraffinic distillate.]	649-533-00-6	272-342-0	68814-89-1	L

Substances	Index number	EEC number	CAS number	Notas
Extracts (petroleum), heavy naphthenic distillate solvent, hydrotreated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained by treating a heavy naphthenic distillate solvent extract with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 19 cSt at 40°C (100 SUS at 100°F).]	649-534-00-1	292-631-5	90641-07-9	L
Extracts (petroleum), heavy paraffinic distillate solvent, hydrotreated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons produced by treating a heavy paraffinic distillate solvent extract with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C21 through C33 and boiling in the range of approximately 350°C to 480°C (662°F to 896°F).]	649-535-00-7	292-632-0	90641-08-0	L
Extracts (petroleum), light paraffinic distillate solvent, hydrotreated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons produced by treating a light paraffinic distillate solvent extract with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C17 through C26 and boiling in the range of approximately 280°C to 400°C (536°F to 752°F).]	649-536-00-2	292-633-6	90641-09-1	L
Extracts (petroleum), hydrotreated light paraffinic distillate solvent; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained as the extract from solvent extraction of intermediate paraffinic top solvent distillate that is treated with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C16 through C36.]	649-537-00-8	295-335-4	91995-73-2	L
Extracts (petroleum), light naphthenic distillate solvent, hydrodesulfurized; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained by treating the extract, obtained from a solvent extraction process, with hydrogen in the presence of a catalyst under conditions primarily to remove sulfur compounds. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C15 through C30. This stream is likely to contain 5 wt.% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	649-538-00-3	295-338-0	91995-75-4	L
Extracts (petroleum), light paraffinic distillate solvent, acid-treated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained as a fraction of the distillation of an extract from the solvent extraction of light paraffinic top petroleum distillates that is subjected to a sulfuric acid refining. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C16 through C32.]	649-539-00-9	295-339-6	91995-76-5	L
Extracts (petroleum), light paraffinic distillate solvent, hydrodesulfurized; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained by solvent extraction of a light paraffin distillate and treated with hydrogen to convert the organic sulfur to hydrogen sulfide which is eliminated. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C40 and produces a finished oil with a viscosity of greater than 10 cSt at 40°C.]	649-540-00-4	295-340-1	91995-77-6	L
Extracts (petroleum), light vacuum gas oil solvent, hydrotreated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons, obtained by solvent extraction from light vacuum petroleum gas oils and treated with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C13 through C30.]	649-541-00-X	295-342-2	91995-79-8	L

Substances	Index number	EEC number	CAS number	Notas
Extracts (petroleum), heavy paraffinic distillate solvent, clay-treated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contact or percolation process to remove the trace amounts of polar compounds and impurities present. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C50. This stream is likely to contain 5 wt.% or more 4-6 membered ring aromatic hydrocarbons.]	649-542-00-5	296-437-1	92704-08-0	L
Extracts (petroleum), heavy naphthenic distillate solvent, hydrodesulfurized; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C50 and produces a finished oil with a viscosity of greater than 19 cSt at 40°C.]	649-543-00-0	297-827-4	93763-10-1	L
Extracts (petroleum), solvent-dewaxed heavy paraffinic distillate solvent, hydrodesulfurized; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained from a solvent dewaxed petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C50 and produces a finished oil with a viscosity of greater than 19 cSt at 40°C.]	649-544-00-6	297-829-5	93763-11-2	L
Extracts (petroleum), light paraffinic distillate solvent, carbon-treated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained as a fraction from distillation of an extract recovered by solvent extraction of light paraffinic top petroleum distillate treated with activated charcoal to remove traces of polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C16 through C32.]	649-545-00-1	309-672-2	100684-02-4	L
Extracts (petroleum), light paraffinic distillate solvent, clay-treated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained as a fraction from distillation of an extract recovered by solvent extraction of light paraffinic top petroleum distillates treated with bleaching earth to remove traces of polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C16 through C32.]	649-546-00-7	309-673-8	100684-03-5	L
Extracts (petroleum), light vacuum, gas oil solvent, carbon-treated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained by solvent extraction of light vacuum petroleum gas oil treated with activated charcoal for the removal of trace polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C13 through C30.]	649-547-00-2	309-674-3	100684-04-6	L
Extracts (petroleum), light vacuum gas oil solvent, clay-treated; Distillate aromatic extract (treated) [A complex combination of hydrocarbons obtained by solvent extraction of light vacuum petroleum gas oils treated with bleaching earth for removal of trace polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C13 through C30.]	649-548-00-8	309-675-9	100684-05-7	L

Substances	Index number	EEC number	CAS number	Notas
Foots oil (petroleum); Foots oil [A complex combination of hydrocarbons obtained as the oil fraction from a solvent deoiling or a wax sweating process. It consists predominantly of branched chain hydrocarbons having carbon numbers predominantly in the range of C20 through C50.]	649-549-00-3	265-171-8	64742-67-2	L
Foots oil (petroleum), hydrotreated; Foots oil	649-550-00-9	295-394-6	92045-12-0	L

Substances	Index number	EEC number	CAS number	Notas
hexamethylphosphoric triamide; hexamethylphosphoramide	015-106-00-2	211-653-8	680-31-9	
diethyl sulphate	016-027-00-6	200-589-6	64-67-5	
benzo[a]pyrene; benzo[d,e,f]chrysene	601-032-00-3	200-028-5	50-32-8	
1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	
ethylene oxide; oxirane	603-023-00-X	200-849-9	75-21-8	
methyl acrylamidomethoxyacetate (containing ≥ 0,1 % acrylamid)	607-190-00-X	401-890-7	77402-03-0	
methyl acrylamidoglycolate (containing ≥ 0,1 % acrylamide)	607-210-00-7	403-230-3	77402-05-2	
ethyleneimine; aziridine	613-001-00-1	205-793-9	151-56-4	
acrylamide	616-003-00-0	201-173-7	79-06-1	

Substances	Index number	EEC number	CAS number	Notas
carbon monoxide	006-001-00-2	211-128-3	630-08-0	
lead hexafluorosilicate	009-014-00-1	247-278-1	25808-74-6	
lead compounds with the exception of those specified elsewhere in this Annex	082-001-00-6			
lead alkyls	082-002-00-1			
lead azide	082-003-00-7	236-542-1	13424-46-9	
lead chromate	082-004-00-2	231-846-0	7758-97-6	
lead di(acetate)	082-005-00-8	206-104-4	301-04-2	
trilead bis(orthophosphate)	082-006-00-3	231-205-5	7446-27-7	
lead acetate	082-007-00-9	215-630-3	1335-32-6	
lead(II) methanesulphonate	082-008-00-4	401-750-5	17570-76-2	
C.I. Pigment Yellow 34; [This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 77603.]	082-009-00-X	215-693-7	1344-37-2	
C.I. Pigment Red 104; [This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 77605.]	082-010-00-5	235-759-9	12656-85-8	
lead hydrogen arsenate	082-011-00-0	232-064-2	7784-40-9	
warfarin; 4-hydroxy-3-(3-oxo-1-phenylbutyl)coumarin	607-056-00-0	201-377-6	81-81-2	
lead 2,4,6-trinitroresorcinoxide; lead styphnate	609-019-00-4	239-290-0	15245-44-0	

Substances	Index number	EEC number	CAS number	Notas
benzo[a]pyrene; benzo[d,e,f]chrysene	601-032-00-3	200-028-5	50-32-8	
2-methoxyethanol; ethylene glycol monomethyl ether	603-011-00-4	203-713-7	109-86-4	
2-ethoxyethanol; ethylene glycol monoethyl ether	603-012-00-X	203-804-1	110-80-5	
2-methoxyethyl acetate; methylglycol acetate	607-036-00-1	203-772-9	110-49-6	
2-ethoxyethyl acetate; ethylglycol acetate	607-037-00-7	203-839-2	111-15-9	
2-ethylhexyl 3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl methyl thio acetate	607-203-00-9	279-452-8	80387-97-9	
binapacryl (ISO); 2-sec-butyl-4,6-dinitrophenyl-3-methylcrotonate	609-024-00-1	207-612-9	485-31-4	
dinoseb; 6-sec-butyl-2,4-dinitrophenol	609-025-00-7	201-861-7	88-85-7	
salts and esters of dinoseb, with the exception of those specified elsewhere in this Annex	609-026-00-2			
dinoterb; 2-tert-butyl-4,6-dinitrophenol	609-030-00-4	215-813-8	1420-07-1	
salts and esters of dinoterb	609-031-00-X			
nitrofen (ISO); 2,4-dichlorophenyl 4-nitrophenyl ether	609-040-00-9	217-406-0	1836-75-5	
methyl-ONN-azoxymethyl acetate; methyl azoxy methyl acetate	611-004-00-2	209-765-7	592-62-1	
ethylene thiourea; imidazolidine-2-thione; 2-imidazoline-2-thiol	613-039-00-9	202-506-9	96-45-7	
N,N-dimethylformamide; dimethyl formamide	616-001-00-X	200-679-5	68-12-2	

8 ip

FINANCIAL STATEMENT

1. Title of operation

Proposal for a Directive of the European Parliament and Council amending for the 17th time Directive 76/769/EEC on the approximation of laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations.

2. Budget heading involved

Article 2510: Expenditure on meetings of Committees whose consultation is compulsory on the procedure for drafting Community legislation.

3. Legal basis

Article 100 A of the Treaty.

4. Description of operation

4.1 General objective

The proposal firstly will ensure that the substances classified as carcinogens, mutagens and toxic for reproduction in categories 1 and 2 will be harmonized throughout the Union and secondly that the health of consumers is protected.

4.2 Period covered and arrangements for renewal

The list will be updated with each adaptation to technical progress of Annex I to Directive 67/548 for c/m/r's.

5. Classification of expenditure or revenue

5.1 Non-compulsory expenditure

5.2 Non-differentiated appropriations

5.3 No revenue is expected

6. Type of expenditure or revenue

None

7. Financial Impact

7.1 Method of calculating total costs of operation

None

7.2 Itemised breakdown of cost

None

7.3 Schedule of commitment and payment appropriations

None

8. Fraud prevention measures

None

9. Elements of cost-effectiveness analysis

9.1 Specific and quantified objectives; target population

The aims of the proposed operation are, firstly, to harmonize restrictions on use of carcinogens, mutagens and substances toxic to reproduction in substances and preparations placed on the market for sale to general public so as to avoid creating obstacles to trade, secondly, to provide a high level of protection for health of consumers.

The general objective is to complete the internal market.

Target population: chemical industry (producers, importers, distributors) and general public.

9.2 Grounds for the operation

Harmonization serves to avoid obstacles to trade and to provide a high level of protections of health of consumers.

9.3 Monitoring and evaluation of the operation

The Committee set up under Directive 76/769/EEC will be responsible for monitoring the application of this Directive.

10. Administrative expenditure (Section III, Part A of the Budget)

Actual mobilization of the necessary administrative resources will depend on the Commissions annual decision on the allocation of resources, taking into account the number of staff and additional amounts authorized by the budgetary authority.

10.1 Effect on the number of posts

No effects.

10.2 Overall financial impact of additional human resources

No impact.

10.3 Increase in other administrative expenditure as a result of the operation

Budget heading	Amounts	Method of calculation
A2510: Meetings of the Technical Progress Committee: Dangerous Substances and Preparations	20850	695*30(number of experts)*1 (number of meetings)
Meetings of working parties of experts of Member States	104250	695*30*5
Total	125100	

No new administrative expenditure is foreseen. Any meetings to be held would take place pursuant to Directive 76/769/EEC in the framework of which the "Technical Progress Committee: Dangerous Substances and Preparations" would be convoked. The estimated expenses for this Directive are made up of 115000 ECU/year for meetings of experts ;and 23100 ECU/year for meetings of the Committee itself (Post A 2510: Expenditure on meetings of committees whose consultation is compulsion in the procedure for drafting Community legislation). No extra meetings are foreseen.

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