

QES Document		Doc No	
Stoffliste -		000090540	
AVL LIST GmbH	Liste deklarationspflichtiger und verbotener	Core process:	-
	Stoffe	Revision:	06
	Restricted Substances List	Gültig ab:	12/2015

Änderungsprotokoll / Revision Protocol

Revision	Revisionsdatum / Revision Date	Änderungsgrund / Reason of Changes
00	01.05.2002	Erstausgabe / first edition
01	15.10.2004	Geänderte Anforderungen / Altered requirements (Ford, Bosch and Volvo)
02	01.02.2008	Geänderte Anforderungen / Altered requirements (Ford, Bosch, Volvo, Renault)
03	10.09.2008	Geänderte Anforderungen / Altered requirements (Ford, Bosch, Volvo, Renault, GADSL)
04	09.03.2009	Geänderte Anforderungen / Altered requirements (Ford, Bosch, Volvo, Renault, GADSL, Scania)
05	20.04.2012	Geänderte Anforderungen / Altered requirements (Bosch, Volvo)
06	26.11.2015	Geänderte Anforderungen / Altered requirements (Bosch, Ford, Kubota, Scania, Volvo)

	Name	Datum / Date	Unterschrift / Signature
Erstellt / Created	O. Herschmann	26.11.2015	
Geprüft / Reviewed	H. Reitbauer	26.11.2015	
Freigegeben / Released	O. Herschmann	26.11.2015	

AVL LIST GmbH	QES Dokument Stofflisten Liste deklarationspflichtiger und verbotener Stoffe	Dok-Nr. Kernprozess: Revision: Gültig ab:	000090540 - 06 12/2015
---------------	---	--	---

Zweck:
Dieses QES-Dokument dient der Definition von Stoffen, die nur eingeschränkt oder unter gewissen Rahmenbedingungen in der AVL List GmbH verwendet oder durch sie in Umlauf gebracht werden dürfen. Diese Stoffliste ergänzt die Verantwortung jedes Lieferanten, geltende, möglicherweise schärfere gesetzliche Vorschriften in der jeweils aktuellen Fassung einzuhalten.

Geltungsbereich:
Dieses QES-Dokument ist für alle Stoffe, Zubereitungen und Produkte inklusive deren Verpackungen anzuwenden, die an AVL geliefert, innerhalb AVL hergestellt, verwendet oder von AVL geliefert werden.

Verpackungsmaterial:
Für Verpackungsmaterial bzw. Verpackungskomponenten darf die kumulative Konzentration von Blei, Cadmium, Quecksilber, Chrom VI die in der EG-Verpackungsrichtlinie 94/62/EG angegebenen Grenzwerte (aktuell 100 ppm) nicht überschreiten.

Erklärung der Listenspalten

Stoffbezeichnung:

CAS-Nummer:
Chemical-Abstracts-Service ist Nummerierungssystem für chemische Stoffe, wodurch eine eindeutige Kennzeichnung der chemischen Verbindung gewährleistet wird. Die angegebene CAS Nummer gibt entweder die Grundsubstanz oder Substanzgruppe an oder ist als Beispiel für wichtige Anwendungen zu sehen.

Klassifizierung (C):

Verboten (P):
Alle Inhaltsstoffe, die lt. AVL-Stoffliste verboten sind, dürfen aktuell bzw. ab einem angegebenen Gültigkeitsdatum in den an uns zu liefernden Produkten, Bauteilen, Werkstoffen, Stoffzubereitungen und Hilfs- und Betriebsstoffen nicht enthalten sein oder bei der Verwendung freigesetzt werden sowie nicht in Konzentrationen oberhalb der angegebenen Grenzwerte enthalten sein. Ein Vorkommen des Inhaltsstoffes unter dem angegebenen Grenzwert ist nach Art und Menge anzugeben. Die Angabe muss den Deklarationsanforderungen des EG-Sicherheitsdatenblattes entsprechen.

Anzugeben (D):
Alle Inhaltsstoffe, die lt. AVL-Stoffliste deklarationspflichtig sind, müssen mit ihrem Masseanteil und der CAS-Nummer nach Art und Menge deklariert werden, wenn sie in den an uns zu liefernden Bauteilen, Werkstoffen, Stoffzubereitungen und Hilfs- und Betriebsstoffen enthalten sind oder bei der Verwendung freigesetzt werden. Die Angabe muss den Deklarationsanforderungen des EG-Sicherheitsdatenblattes entsprechen.

Beobachten (M):
Bezieht sich auf Substanzen, die wegen möglicher zukünftiger Restriktionen oder Verbote zu überwachen sind (mittel- oder langfristig)

Grenzwert (T):
Der Inhaltsstoff darf aktuell bzw. ab einem angegebenen Gültigkeitsdatum keinen Bestandteil der Rezeptur darstellen und nicht in Konzentrationen oberhalb der angegebenen Grenzwerte enthalten sein. Der Grenzwert für Verbot (P prohibited) bzw. Deklaration (D declarable) beträgt 0,1% Massenanteil, sofern kein anderer Wert angegeben ist. Ist der Grenzwert mit n.a. angegeben, existiert kein vorgeschriebener Grenzwert.

Anwendungen / Ausnahmen:
In den Beispielen sind typische Anwendungen von umweltrelevanten gefährlichen Stoffen genannt. Dazu gehören Inhaltsstoffe in den Werkstoffen und Stoffen, die bei der Herstellung verwendet wurden und als Reststoffe auftreten können.

Anwendungszeitpunkt:
Der jeweilige Inhaltsstoff ist erst ab dem angegebenen Zeitpunkt verboten bzw. zu deklarieren.

Quellen:
Bosch N2580-1 (Verbot und Deklaration von Inhaltsstoffen) Stand März 2014
Ford Engineering Material Specification (WSS-M99P9999-A1) Stand April 2015
Volvo's black list (STD 100-0002) Stand März 2015
Volvo's grey list (STD 100-003) Stand März 2015
Scania black list (STD4158) Stand Februar 2014
Scania grey list (STD4149) Stand März 2014
Renault combined list (00-10-050/-F) Stand Dezember 2007
Kubota Substances of concern list - Stand Juli 2014

Mitgeltende Unterlagen:
0000068266_VA_Richtlinie zur Verwendung von Stoffen
Richtlinie 1272/2008/EG zur 30. Anpassung der Richtlinie 67/548/EWG des Rates zur Angleichung der Rechts- und Verwaltungsvorschriften für die Einstufung, Verpackung und Kennzeichnung gefährlicher Stoffe an den technischen Fortschritt; in der gültigen Fassung
Verordnung 987/2008/EG Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe (REACH) hinsichtlich der Anhänge IV und V; in der geltenden Fassung.
Richtlinie 2011/65/EU Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten (RoHS); in der geltenden Fassung
geltendes EU-Recht
GADSL (http://www.mdsystem.com/html/de/home_de.htm) in der geltenden Fassung

AVL LIST GmbH	QES Document Restricted Substances List	Doc No. Core Process: Revision: Valid from:	000090540 - 06 12/2015
---------------	--	--	---------------------------------

Purpose:
The purpose of this QES document is to define substances which may be used or circulated by AVL List GmbH only under certain conditions or restrictions. This list completes the responsibility of each supplier to keep to possibly stricter legal requirements in its latest version.

Scope:
The scope of this QES document has to be applied for all substances, preparations and products, including packaging, which are supplied to AVL, manufactured or used at AVL or delivered from AVL.

Packing material:
For packing material and / or packing components the cumulative concentration of lead, cadmium, mercury, chromium may not exceed the indicated limit values of the packing regulation 94/62/EEC (current 100 ppm).

Terms and abbreviations

Naming of Substances:
This column contains chemical compounds or substance groups.

CAS-Number:
Chemical Abstract Service is a numbering system for chemical elements guaranteeing a clear marking of the chemical compounds. The CAS number indicates either the basic chemical elements or the substance group or it is to be referred to as an example for essential applications.

Classification (C):

Prohibited (P):
All substances prohibited according to AVL's list of declarable and restricted substances may neither be contained in products, components, preparations, auxiliary and working material nor be emitted currently or from a certain date of validity, nor may the concentration of the substances be above the stated threshold. The existence of these substances below the set threshold is to be declared by type and quantity. The declaration has to comply with the requirements of declaration of the EC safety data sheet.

Declarable (D):
All substances which are to be declared according to AVL's List of declarable and restricted substances, have to be declared with percent per weight and CAS number, if those substances are contained in products, component parts, materials, preparations, and utilities supplied to AVL or released at usage. The declaration has to comply with the requirements of declaration of the EC safety data sheet.

Monitoring (M):
Relates to substances to be monitored due to possible future restrictions or prohibitions (medium or long term).

Threshold (T):
Currently or from a certain date of validity, the indicated substances may be neither components of the formulation nor be included in concentrations above the stated thresholds.
The threshold for prohibited (P) and declarable (D) substances is 0.1 percent per weight, unless there is another value indicated. (n.a. = not applicable)

Applications / Exceptions:
This column covers typical applications of environmentally relevant hazardous substances, including ingredients of materials and substances which are used during production and may occur as residual material.

Effective Date:
The substance concerned is only prohibited or to be declared from a stated date.

Sources:
BoschNorm N 2580-1 (Prohibition and declaration of substances) Status March 2014
Ford Engineering Material Specification (WSS-M99P9999-A1) Status April 2015
Volvo's black list (STD 100-0002) Status March 2015
Volvo's grey list (STD 100-003) Status March 2015
Scania black list (STD4158) Status February 2014
Scania grey list (STD4149) Status March 2014
Renault combined list (00-10-050/--F) Status December 2007
Kubota Substances of concern list - Status July 2014

Applicable documents:
0000068266_VA_Richtlinie zur Verwendung von Stoffen / 0000068350_VA_Guideline for the handling of substances
Dir. 1272/2008/EC for the purpose of its adaptation to technical progress, for the 30th time, Council Directive 67/548/EEC on the approx. of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances; in the valid version
Reg. 2008/987/EC amending Reg. 1907/2006/EC on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards Annexes IV and V; in the valid version
Dir. 2011/65/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS); in the valid version
applicable EU legislation
GADSL (http://www.mdsystem.com/html/de/home_de.htm) in the valid version

[illegible]

Substance	CAS-No.	C	P/T	D/T	Example of use / Exemptions	Effective Date
Tar, coal, high-temp. residues: Coal Tar Solids Residue. [Solids formed during the coking of bituminous coal to produce coke high temperature tar. Composed primarily of coke and coal particles, highly aromatized compounds and mineral substances.]	10084-91-3	C				
4-Vinylpyridine	100-48-4	C				
4-Nitroacetophenone	100-79-3	C				
Methyl 3-chloro-5-(4,8-dimethyl-2-pyrrolo[4,3-b]pyridin-1-yl)methylpyrrole-4-carboxylate	100784-20-1	C				
Hydrocarbon oils, arom. mixed with polyethylene and polyethylene, pyrolyzed, light oil fraction: Heat Treatment Products. [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).]	100801-63-6	C				
Hydrocarbon oils, arom. mixed with polyethylene, pyrolyzed, light oil fraction: Heat Treatment Products. [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 approximately 70 °C to 210 °C (158 °F to 410 °F).]	100801-69-8	C				
Hydrocarbon oils, arom. mixed with polyethylene, pyrolyzed, light oil fraction: Heat Treatment Products. [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).]	100801-66-9	C				
4-Nitroacetophenone	100-95-4	M		0,001		
Alkethanamine 1,3,5,7-Tetraazabicyclo[3,3,1]3,7-Fluorene	100-97-0	M/C		0,0001		
Thiourea-90	100801-61-3	C				
Lead dinitrate/ Lead (II) nitrate	10099-74-8	D/PIR	0,10%	0,001%	Scania 2014: Plastic products Application: Stabilizers for PVC	Scania 2014: 19.12.2012
Lead(2+) silicate/ Lead monosilicate	10099-76-0	PIR	0,10%	0,001%		
Lead vanadate	10099-78-3	R				
Lead, inododecylate naphthalenyl complex, base	101013-28-4	R				
Lead, inododecylate neodecylate complex	101013-06-3	R				
Leadmonocarbonate	10101-26-4	C				
Phosphoric acid, cobalt(2+) salt (2:1) hydrate	10101-28-1	C				
Cobalt tungsten oxide (CoW04)	10101-58-3	C				
Lead oxide	10101-61-8	R				
Nickel(II) silicate	10101-66-9	C				
Nickel(II) sulfate hexahydrate (1:6)	10101-91-6	C				
Sulfonic acid, cobalt(2+) salt (1:1), bisacrylate	10101-28-1	C				
Triphenylphosphine	101-02-0	C		0,01%		
Sodium aluminum borate	10101-01-8	C				
Thallium(II) nitrate	10101-45-1	R				
Lead arsenate (Pb3As2O14O2)	10101-48-8	R				
Lead arsenate(III)	10101-55-6	R				
Lead arsenate(III)	10101-55-8	R				
Lead arsenate(III)	10101-55-9	R				
Magnesium arsenate	10101-50-1	C				
Arsonic acid (H4AsO4), copper salt	10101-81-4	C				
Cobaltium arsenate	10101-81-5	C				
Cadmium chloride	10108-64-2	PIR	0,0001	0,00001	printing, galvanizing, photography	
Aluminum dichloride	101-72-1	R				
2,2-Dichloro-4,4'-methylenebis[4,4'-Methylenebis(2-chloroaniline)] 3,3'-Dichloro-4,4'-diaminodiphenylmethane	101-14-4	D/PIR	0,10%	0,01%		Scania 2014: 03.01.2012
Calciummanganate	101-18-78-5	C				
Calciummaltate	10101-38-4	PIR	0,0001	0,00001	lab tests for arsenic titration	
Cobalt sulfate	10124-43-3	P / D / C	0,001	0,00001	Scania 2014: Raw material for pigments, surface treatments, batteries, Bosch 2012: 0,1, however prohibited for developing new materials or material alterations; / anti-corrosion protection on screws, mountings, clamps	Scania 2014: 05.01.2011
Mercury ammonium chloride	10124-48-8	R				
Polysulfuric acid	10124-58-2	C				
Neurospirocholate	10124-58-4	C				
Absorption oils, bicyclo arom. and heterocyclic hydrocarbon fraction: Wash Oil Residue. [A complex combination of hydrocarbons obtained as a residue from the distillation of wash oil. It consists predominantly of 2-ring aromatic and heterocyclic hydrocarbons boiling in the range of approximately 260 °C to 290 °C (500 °F to 554 °F).]	101010-45-4	C				
Distillates (coal tar) pitch: Heavy Anthracene Oil. [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 290 °C to greater than 400 °C (538 °F to greater than 752 °F).]	101010-49-8	C				
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).]	101010-56-7	C				
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 C8 through C26 and boiling in the range of approximately 190 °C to 400 °C (392 °F to 752 °F).]	101010-57-8	C				
Distillates (petroleum), hydrodesulfurized middle oil. Cracked gasoil. [A complex combination of hydrocarbons from hydrodesulfurized coker distillate stocks. It consists of hydrocarbons having carbon numbers predominantly in the range of C12 through C21 and boiling in the range of approximately 200 °C to 380 °C (392 °F to 696 °F).]	101010-59-9	C				
Extract residues (coal), light oil, alk., acid ext., indene fraction: Light Oil Extract Residues, intermediate boiling	101010-62-5	C				
Extract residues (coal tar), benzene fraction, alk., acid ext., indene fraction: Light Oil Extract Residues, intermediate boiling	101010-62-6	C				
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 petroleum with hydrogen in the presence of a catalyst. It consists predominantly of unsubstituted and substituted mononuclear aromatic hydrocarbons boiling in the range of 85 °C to 195 °C (185 °F to 383 °F).]	101010-66-9	C				
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 petroleum with hydrogen in the presence of a catalyst. It consists predominantly of unsubstituted and substituted mononuclear aromatic hydrocarbons boiling in the range of 85 °C to 195 °C (185 °F to 383 °F).]	101010-67-0	C				
Hydrocarbons, C6-rich, hydrocracked light naphtha distillates, solvent-refined. Low boiling point naphtha – unspecified. [A complex combination of hydrocarbons obtained by distillation of hydrocracked naphtha followed by solvent extraction. It consists predominantly of saturated hydrocarbons and boiling in the range of approximately 65 °C to 140 °C (149 °F to 284 °F).]	101010-67-0	C				
Lubricating oils (petroleum), C7-25, solvent-wtd., deasphalted, deoiled, 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 in the range of C7 through C25 and produces a finished oil with a viscosity in the order of 35cSt to 35cSt at 100 °C (212 °F).]	101010-69-2	C				
Lubricating oils (petroleum), C7-32, solvent-wtd., deasphalted, 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 C7 through C32 and produces a finished oil with a viscosity in the order of 17cSt to 35cSt at 40 °C (104 °F).]	101010-70-5	C				
Lubricating oils (petroleum), C20-30, solvent-wtd., deasphalted, 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 C30 and produces a finished oil with a viscosity in the order of 17cSt to 35cSt at 40 °C (104 °F).]	101010-71-6	C				
Lubricating oils (petroleum), C24-50, solvent-wtd., deasphalted, 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 16cSt to 76cSt at 40 °C (104 °F).]	101010-72-7	C				
Naphtha (petroleum), hydrodesulfurized full-range color. 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).]	101010-76-1	C				
Tar, brown-coal, [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 260 °C (302 °F to 499 °F).]	101010-82-0	C				
Tar, brown-coal, low-temp. [A tar obtained from low temperature carbonization and low temperature purification of brown coal. Composed primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons, heteroaromatics and cyclic phenols.]	101010-84-1	C				
Tar, coal, low-temp., dist. residues: Tar Oil, 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.]	101010-82-2	C				
Tar acids, brown-coal, crude: Crude Phenols. [An acidified phenolic extract of brown coal tar distillation. Composed primarily of phenol and phenol homologs.]	101010-86-3	C				
Tar oils, coal, low-temp. Tar Oil, 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 180 °C to 380 °C (350 °F to 714 °F).]	101010-87-4	C				
Cadmium oxide (CdO), solid solution with calcium oxide and thionin oxide (TiO2) praseodymium-doped	101069-84-4	R				
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, aluminum and copper-doped	101067-00-0	R				
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, copper and manganese-doped	101067-01-1	R				
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, europium-doped	101067-02-2	R				
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, acid and manganese-doped	101067-03-3	R				
Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, manganese and silver-doped	101067-04-4	R				
Cobalt(II) dinitrate/ Cobalt dinitrate	10141-05-6	D / C	0,001		Scania 2014: Raw material for catalysts, surface treatment, batteries, Bosch 2012: 0,1, however prohibited for developing new materials or material alterations;	Scania 2014: 05.01.2011
2,4-Bis(4-ethylphenyl)-6-methylthio-1,3,5-triazine	1014-79-6	C				
Bromobenzene ether	101-58-3	C				
N,N,N',N'-tetramethyl-4,4'-methylenebis(4-methyl-2-ethyl-6-tert-butyl-4-vinylbenzylamine) (Möbcher's base)	101-61-1 (202-999-2)	D / C			Scania 2014: Intermediate for the manufacturing of paint and coloring agent	Scania 2014: 18.06.2012
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 200 °C to 400 °C (392 °F to 752 °F).]	101631-14-5	C				
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).]	101631-20-3	C				
Methylenedioxy(4,1-phenylene) dicarbonate	101-68-8	D / C	0,01%	0,01%	Resolu: Polystyrene from paint, glue	
Nitrophenyl(N-phenyl)para-phenylenediamine	101-72-4	D				
4,4'-Diaminodiphenylmethane/ 4,4'-Methylenebis(4-aminodiphenylmethane)	101-77-9	P / D / C	5,10%	0,01%	Scania 2014: Hardener in paints, Bosch 2012: 0,1, however prohibited for developing new materials or material alterations; / in paints (7,5/98 Resolu: azo dyes synthesis, hardener, resin, Bosch, 2010: Hardening agents for epoxy resins and adhesives, intermediate product for diphenylmethanediisocyanate (MDI) - important starting material for PUR-foam, intermediate product for other polymers and monomers, 2010 Volvo: Hardener in paints	Scania 2014: 24.02.1998
Aromatic hydrocarbons, C20-26, polyaromatic, mixed coal-tar pitch-polyethylene-polypropylene-pyrolisis-derived: Pyrolysis Products. [A complex combination of hydrocarbons obtained from mixed coal tar pitch-polyethylene-polypropylene-pyrolisis. Composed primarily of polyaromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C26 and having a softening point of 100 °C to 220 °C (212 °F to 428 °F) according to DIN 52025.]	101764-14-5	C				
Aromatic hydrocarbons, C20-26, polyaromatic, mixed coal-tar pitch-polyethylene-pyrolisis-derived: Pyrolysis Products. [A complex combination of hydrocarbons obtained from mixed coal tar pitch-polyethylene-pyrolisis. Composed primarily of polyaromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C26 and having a softening point of 100 °C to 220 °C (212 °F to 428 °F) according to DIN 52025.]	101764-79-6	C				
Aromatic hydrocarbons, C20-26, polyaromatic, mixed coal-tar pitch-polyethylene-pyrolisis-derived: Pyrolysis Products. [A complex combination of hydrocarbons obtained from mixed coal tar pitch-polyethylene-pyrolisis. Composed primarily of polyaromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C26 and having a softening point of 100 °C to 220 °C (212 °F to 428 °F) according to DIN 52025.]	101764-76-7	C				
Distillates (coal tar), light oils, neutral fraction: Light Oil 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 indenes and coumarones.]	101764-90-5	C				
Distillates (coal tar), naphthalene oils, indole-methylnaphthalene fraction: Methylnaphthalene Oil. [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of indole and methylnaphthalene boiling in the range of approximately 220 °C to 255 °C (425 °F to 491 °F).]	101764-91-6	C				
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 predominantly 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).]	101764-97-2	C				

3/45

4/45

5/45

6/45

7/45

8/45

9/45

10/45

11/45

000090540_DI_Stoffliste-Restricted Substances List; R06

13/45

14/45

[illegible]

000090540_DI_Stoffliste-Restricted Substances List; R06

[illegible]

18/45

Public

Substance	CAS-No.	C	P/T	h/T	Example of use / Exemptions	Effective Date
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 (190St at 40 ° C). It contains relatively few normal paraffins.]	64741-53-3	C				
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 C8 through C12 and boiling in the range of approximately 85 ° C to 230 ° C (184 ° F to 446 ° F). It contains a relatively large proportion of unsaturated hydrocarbons.]	64741-54-4	C				
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- 20 ° C to 190 ° C (-4 ° F to 374 ° F). It contains a relatively large proportion of unsaturated hydrocarbons.]	64741-55-5	C				
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.]	64741-57-7	C				
Distillates (petroleum), light catalytic cracked: Cracked: asoil. [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 C20 and boiling in the range of approximately 100 ° C to 400 ° C (202 ° F to 752 ° F). It contains a relatively large proportion of bicyclic aromatic hydrocarbons.]	64741-59-9	C				
Distillates (petroleum), intermediate catalytic cracked: Cracked: asoil. [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 C20 and boiling in the range of approximately 200 ° C to 450 ° C (401 ° F to 842 ° F). It contains a relatively large proportion of tricyclic aromatic hydrocarbons.]	64741-60-2	C				
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.]	64741-61-3	C				
Cracked 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 in the range of C10 through C25 and boiling in the range of approximately 160 ° C to 400 ° C (320 ° F to 752 ° F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	64741-62-4	C				
Naphtha (petroleum), light catalytic reformed: Low boiling: point cat-refined naphtha. [A complex combination of hydrocarbons produced from the distillation of products from a catalytic refining process. It consists of hydrocarbons having carbon numbers predominantly in the range of C8 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 aromatics.]	64741-63-5	C				
Naphtha (petroleum), full-range alkyates: Low boiling point: modified naphtha. [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monolefinic 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 and boiling in the range of approximately 90 ° C to 220 ° C (194 ° F to 428 ° F).]	64741-64-6	C				
Naphtha (petroleum), heavy alkyates: Low boiling point: modified naphtha. [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monolefinic 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 290 ° C (302 ° F to 428 ° F).]	64741-65-7	C				
Naphtha (petroleum), light alkyates: Low boiling point: modified naphtha. [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monolefinic 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 C10 and boiling in the range of approximately 80 ° C to 160 ° C (194 ° F to 320 ° F).]	64741-66-8	C				
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 752 ° F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	64741-67-9	C				
Naphtha (petroleum), heavy catalytic reformed: Low boiling: point cat-refined naphtha. [A complex combination of hydrocarbons produced from the distillation of products from a catalytic refining process. It consists of predominantly aromatic 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).]	64741-68-0	C				
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 -20 ° C to 180 ° C (-4 ° F to 356 ° F).]	64741-69-1	C				
Naphtha (petroleum), isomerization: Low boiling point: modified naphtha. [A complex combination of straight chain paraffins obtained from catalytic isomerization of straight chain paraffins. C4 through hydrocarbons. It consists predominantly of saturated hydrocarbons such as isobutane, isopentane, 2,2-dimethylbutane, 2-methylpentane, and 3-methylpentane.]	64741-70-4	C				
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 C5 and boiling in the range of approximately -10 ° C to 130 ° C (14 ° F to 266 ° F).]	64741-74-8	C				
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 aromatic.]	64741-75-9	C				
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 approximately 260 ° C to 600 ° C (500 ° F to 1112 ° F).]	64741-76-0	C				
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 C8 through C12, and boiling in the range of approximately 65 ° C to 230 ° C (148 ° F to 446 ° F).]	64741-78-2	C				
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 in the range of C10 through C25 and boiling in the range of approximately 160 ° C to 400 ° C (320 ° F to 752 ° F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	64741-80-6	C				
Distillates (petroleum), heavy thermal cracked: Heavy Fuel oil. [A complex combination of hydrocarbons produced 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 C25 and boiling in the range of approximately 160 ° C to 370 ° C (320 ° F to 698 ° F).]	64741-82-8	C				
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 C8 through C12 and boiling in the range of approximately 60 ° C to 220 ° C (148 ° F to 428 ° F).]	64741-83-9	C				
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).]	64741-84-0	C				
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 130 ° C to 340 ° C (266 ° F to 653 ° F).]	64741-86-2	C				
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 -10 ° C to 230 ° C (14 ° F to 446 ° F).]	64741-87-3	C				
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 (190St at 40 ° C).]	64741-88-4	C				
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 (190St at 40 ° C).]	64741-89-5	C				
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).]	64741-90-6	C				
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 100 ° C to 340 ° C (202 ° F to 653 ° F).]	64741-91-9	C				
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).]	64741-92-0	C				
Residual oils (petroleum), solvent desasphalted: Baseoil - unspecified. [A complex combination of hydrocarbons obtained as the solvent soluble fraction from C3-C4 solvent desasphalting of a residuum. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400 ° C (752 ° F).]	64741-93-3	C				
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 (190St at 40 ° C). It contains relatively few normal paraffins.]	64741-96-4	C				
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 C20 and produces a finished oil with a viscosity of less than 100 SUS at 100 ° F (190St at 40 ° C). It contains relatively few normal paraffins.]	64741-97-5	C				
Residual oils (petroleum), solvent-refined: Baseoil - unspecified. [A complex combination of 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).]	64742-01-4	C				
Extracts (petroleum), light naphthenic distillate solvent	64742-03-8	N				
Extracts (petroleum), heavy paraffinic distillate solvent	64742-04-7	C				
Extracts (petroleum), light paraffinic distillate solvent	64742-05-6	C				
Extracts (petroleum), heavy naphthenic distillate solvent	64742-11-6	C				
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).]	64742-12-7	C				
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 350 ° C (401 ° F to 663 ° F).]	64742-13-8	C				
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 C8 through C16 and boiling in the range of approximately 100 ° C to 290 ° C (202 ° F to 554 ° F).]	64742-14-9	C				
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 ° F to 446 ° F).]	64742-15-0	C				
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 (190St at 40 ° C). It contains relatively few normal paraffins.]	64742-18-3	C				
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 C20 and produces a finished oil with a viscosity of less than 100 SUS at 100 ° F (190St at 40 ° C). It contains relatively few normal paraffins.]	64742-19-4	C				
Distillates (petroleum), acid-treated heavy 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 C20 through C50 and produces a finished oil having a viscosity of at least 100 SUS at 100 ° F (190St at 40 ° C).]	64742-20-7	C				
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 C20 and produces a finished oil having a viscosity of less than 100 SUS at 100 ° F (190St at 40 ° C).]	64742-21-8	C				
Naphtha (petroleum), chemically rectified: 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 C8 through C12 and boiling in the range of approximately 60 ° C to 230 ° C (140 ° F to 446 ° F).]	64742-22-9	C				
Naphtha (petroleum), chemically rectified: 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 -20 ° C to 190 ° C (-4 ° F to 374 ° F).]	64742-23-0	C				

Substance	CAS-No.	C	P/T	D/T	Example of use / Exemptions	Effective Date
Distillates (petroleum), chemically neutralized heavy paraffinic: Unrefined or mildly refined basoil: [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 (180St at 40 ° C). It contains a relatively large proportion of aliphatic hydrocarbons.]	64742-27-4	C				
Distillates (petroleum), chemically neutralized light paraffinic: Unrefined or mildly refined basoil: [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 (180St at 40 ° C).]	64742-28-5	C				
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 (440 ° F to 752 ° F).]	64742-29-6					
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 approximately 200 ° C to 340 ° C (401 ° F to 653 ° F).]	64742-30-9	C				
Distillates (petroleum), chemically neutralized heavy naphthenic: Unrefined or mildly refined basoil: [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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-34-3					
Distillates (petroleum), chemically neutralized light naphthenic: Unrefined or mildly refined basoil: [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 at 100 ° F (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-35-4	C				
Distillates (petroleum), clay-treated paraffinic: Basoil – 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 (180St at 40 ° C). It contains a relatively large proportion of saturated hydrocarbons.]	64742-36-5	C				
Distillates (petroleum), clay-treated light paraffinic: Basoil – 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 (180St at 40 ° C). It contains a relatively large proportion of saturated hydrocarbons.]	64742-37-6	C				
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 C5 through C20 and boiling in the range of approximately 180 ° C to 340 ° C (302 ° F to 653 ° F).]	64742-38-7					
Residual oils (petroleum), clay-treated: Basoil – 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 hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400 ° C (752 ° F).]	64742-41-2	C				
Distillates (petroleum), clay-treated heavy naphthenic: Basoil – 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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-44-5					
Distillates (petroleum), clay-treated light naphthenic: Basoil – 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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-45-6					
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 200 ° C to 400 ° C (401 ° F to 752 ° F).]	64742-46-7					
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 (145 ° F to 446 ° F).]	64742-48-9	C				
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 C6 through C11 and boiling in the range of approximately minus 20 ° C to 190 ° C (-4 ° F to 374 ° F).]	64742-49-0	C				
Distillates (petroleum), hydrotreated heavy naphthenic: Basoil – 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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-52-5	C				
Distillates (petroleum), hydrotreated light naphthenic: Basoil – 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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-53-6	C				
Distillates (petroleum), hydrotreated heavy paraffinic: Basoil – 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 (180St at 40 ° C). It contains a relatively large proportion of saturated hydrocarbons.]	64742-54-7	C				
Distillates (petroleum), hydrotreated light paraffinic: Basoil – 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 (180St at 40 ° C). It contains a relatively large proportion of saturated hydrocarbons.]	64742-55-8					
Distillates (petroleum), solvent-dewaxed light paraffinic: Basoil – 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 C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 ° F (180St at 40 ° C).]	64742-56-9	C				
Residual oils (petroleum), hydrotreated: Basoil – 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).]	64742-57-0					
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 C20 through C50 and produces a finished oil with a viscosity of less than 100 SUS at 100 ° F (180St at 40 ° C).]	64742-59-2					
Stock wax (petroleum), Stock wax: [A complex combination of hydrocarbons obtained from a petroleum fraction by solvent crystallization (solvent dewaxing) or as a distillation fraction from a very heavy crude. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C30.]	64742-61-6					
Residual oils (petroleum), solvent-dewaxed: Basoil – 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).]	64742-62-7	C				
Distillates (petroleum), solvent-dewaxed heavy naphthenic: Basoil – 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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-63-8					
Distillates (petroleum), solvent-dewaxed light naphthenic: Basoil – 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 C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 ° F (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-64-9					
Distillates (petroleum), solvent-dewaxed heavy paraffinic: Basoil – 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 (180St at 40 ° C).]	64742-65-0	C				
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).]	64742-66-1					
Fuels oil (petroleum), Fuels oil: [A complex combination of hydrocarbons obtained from a solvent desolving or a wax sweating process. It consists predominantly of branched chain hydrocarbons having carbon numbers predominantly in the range of C20 through C50.]	64742-67-2	C				
Naphthenic oils (petroleum), catalytic dewaxed heavy: Basoil – 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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-68-3					
Naphthenic oils (petroleum), catalytic dewaxed light: Basoil – 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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-69-4	C				
Paraffin oils (petroleum), catalytic dewaxed heavy: Basoil – 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 (180St at 40 ° C).]	64742-70-7	C				
Paraffin oils (petroleum), catalytic dewaxed light: Basoil – 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 of less than 100 SUS at 100 ° F (180St at 40 ° C).]	64742-71-8	C				
Naphtha (petroleum), hydrosulfurized light: Low boiling point hydrogen treated naphtha: [A complex combination of hydrocarbons obtained from a catalytic hydrosulfurization process. 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 190 ° C (-4 ° F to 374 ° F).]	64742-73-0	C				
Naphthenic oils (petroleum), complex dewaxed heavy: Basoil – 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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-75-2	C				
Naphthenic oils (petroleum), complex dewaxed light: Basoil – 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 (180St at 40 ° C). It contains relatively few normal paraffins.]	64742-76-3	C				
Residues (petroleum), hydrosulfurized atmospheric: Lower: Heavy Fuel oil: [A complex combination of hydrocarbons obtained by treating an atmospheric tower residue with hydrogen in the presence of a catalyst under conditions primarily to remove organics.]	64742-78-5	C				
Gas oils (petroleum), hydrosulfurized: Basoil – 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 (440 ° F to 752 ° F).]	64742-79-6					
Distillates (petroleum), hydrosulfurized 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 200 ° C to 400 ° C (401 ° F to 752 ° F).]	64742-80-9	C				
Naphtha (petroleum), hydrosulfurized heavy: Low boiling point hydrogen treated naphtha: [A complex combination of hydrocarbons obtained from a catalytic hydrosulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C12 and boiling in the range of approximately 30 ° C to 230 ° C (86 ° F to 446 ° F).]	64742-82-1	C				
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.]	64742-83-2	C				
Gas oils (petroleum), hydrosulfurized heavy vacuum: Heavy Fuel oil: [A complex combination of hydrocarbons obtained from a catalytic hydrosulfurization 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 less than 100 SUS at 100 ° F (180St at 40 ° C).]	64742-85-5					
Solvent naphtha (petroleum), light: 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 190 ° C (95 ° F to 357 ° F).]	64742-89-8	C				
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 of aromatic hydrocarbons.]	64742-90-1					
Solvent naphtha (petroleum), light: 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).]	64742-95-6					
Petroleum (petroleum), oxidized: Petroleum: [A complex combination of organic compounds, predominantly high molecular weight carboxylic acids, obtained by the air oxidation of petroleum.]	64743-01-7	C				
Lead dipicrate	6477-64-1	D/R				Scans 01.04.2012
Ammonium nitrate (AN)	6488-32-2	C				
Polychlorinated biphenyls	6489-33-2	C				
Chlorobenzene	64-66-5	C				
Salts of 3,3'-dibromobiphenyl-4,4'-diolsulfonic	6489-34-2	C				

22/45

	CAS No.	C	P	D	Example of use / Exemptions	Effective Date
N,N Dimethylformamide	68-12-2	D	0.10%	0.10%	Scania 2014. Solvents, Laboratory chemical, Volvo 2014. Solvents; all products. (26.09.08) Renewal: Solvent	Scania 2014, 19.12.2012/ Volvo 2014, 15.03.2014
Succinic acid, 4-amino-, cobalt(2+) salt (2:1)	68122-93-5	C				
Stillic acid, lead nickel salt	68122-93-8	R				
Substituted nickel hydroxide oxides	68122-93-9	R				
Aromatic hydrocarbons, C8-10, acid-treated, neutralized	68131-49-7	C				
Low boiling point naphtha - unspecified	68131-49-7	R				
Fatty acids, C12-18, lead salts	68131-49-2	R				
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).]	68131-75-9	C				
Cobaltate(2-) bis[5-(14-chloro-8-methoxy-1,3-triazin-2-ylidene)-4-hydroxy-2-[2-(hydroxy-5-methylphenyl)sulfonyl]-2,7-naphthalenedisulfonate](4-)-], tetrasodium hydrogen	68132-40-4	C				
Nickel [2-amino-2-sulfatoxyacetate(2-)]-	68133-44-6	C				
Cobalt [2-amino-2-sulfatoxyacetate(2-)]-	68133-44-7	C				
Ferrous acid, copper nickel salt	68134-39-8	C				
Isolated or reaction products with lead oxide PbO and malic	68134-39-8	R				
2-Propanoic acid, 2-methyl-, methyl ester, polymer with ethylbenzene, lead(2+)-bis[2-methyl-2-propanoate] and alpha-(2-methyl-1-oxy-2-propenyl)-omega-(2-methyl-1-oxy-2-propenyl)oxy[3-oxo-1,2-epanediyl]	68135-47-5	R				
Tetramethyl carbinols	68136-54-5	C				
C.I. Pigment Green 50	68136-54-5	C				
Cobalt aluminate blue spinel	68136-54-7	C				
C.I. Pigment Blue 72	68136-54-8	C				
Cobalt nickel gray peroxide, C.I. Pigment Black 25, C.I. 7332	68136-59-0	C				
Copper chromite black spinel	68136-61-4	M	0.001			
C.I. Pigment Black 27	68136-67-0	C				
C.I. Pigment Blue 36	68137-11-1	C				
Lead 2-ethoxyacetate telluric fatty acids complexes	68137-22-1	R				
C.I. Pigment Green 26	68137-24-6	C				
Pitch, coal tar petroleum; Pitch Residue; The residue from the distillation of coal tar for petrochemical 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.]	68137-52-5	C				
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.)	68138-49-7	C				
Nickel, bis[2-hydroxy-4-(octylphenyl)phenylmethanesulfonato-O,O']	68139-15-1	C				
Cobalt, [2N(3,3H-phthalocyanine-C-G-diarynyl)acetonate(2-)-N(2,N,N,N))Ni(2-)]	68139-40-2	C				
Trichloroethylene	681-99-2	C				
Mercury, hexamethyldiammoniumhexa-, IT-K4	68201-24-8	C				
naphthalen-1-YL, OC=O-1Y-[N=N-1,3'-vinylidene(bis(carbozynthylglycolato)(3-))-NN-O,O'-ON(OH)sulfamate(2-)-(2:1)]	68201-98-9	C				
Cobaltate(1-)-[C-(chlorosulfuryl)-2N(3,3H-phthalocyanine-C-sulfamate(2-)-N(2,N,N,N))Ni(2-)-hydrogen Tn, diacyl(N-carboxymethyl-N(2-)-oxyethyl)sulfamate(2-)-]	68219-12-9	C				
Cobaltate(1-)-[N-{B-[5-(aminosulfonylo-2-hydroxyphenyl)sulfonyl]-7-hydroxy-1-naphthalenyl}sulfamate(2-)](2-[4-(5-hydroxy-3-methyl-5-oxy-1-phenyl)-1H-pyrrole-4-yl]butyl-4-)-hydrogensulfatosulfamate(2-)-]-hydrogen	68219-47-4	C				
Diisobutyl-DI(1,4-dioxapropyl-2,2-tetrane-NI)iodide	68219-55-4	C				
Cobalt, bis(aceto-O)(1,4-dioxapropyl-2,2-tetrane-NI)-homopolymer	68219-56-5	C				
Dibutyl-DI(1,4-dioxapropyl-2,2-tetrane-NI)iodide	68219-56-6	C				
Cobalt, di(hetero-1,4-dioxapropyl-2,2-tetrane-NI)-homopolymer	68219-56-7	C				
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 distillates and catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C4.]	68207-98-2	C				
Tail gas (petroleum), catalytic polyim, 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.]	68207-99-3	C				
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.]	68208-00-9	C				
Tail gas (petroleum), cracked distillate hydrosulfator prepurifier: 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 C4.]	68208-01-0	C				
Tail gas (petroleum), gas of 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.]	68208-03-2	C				
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.]	68208-04-3	C				
Tail gas (petroleum), gas recovery plant: Dehydroaromatizer: Petroleum gas: [A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	68208-05-4	C				
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 acids impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	68208-06-5	C				
Tail gas (petroleum), hydrodesulfurized vacuum gas oil prepurifier: 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 C5.]	68208-07-6	C				
Tail gas (petroleum), isomerized						
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.]	68208-08-7	C				
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.]	68208-09-8	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulfide-free Petroleum gas: [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight 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.]	68208-10-1	C				
Tail gas (petroleum), straight-run distillate hydrodesulfurizer: Hydrogen sulf						

Substance	CAS-No.	C	P/T	h/T	Example of use / Exemptions	Effective Date
Raffinates (petroleum), reformer, Long unit-sepd. Low boiling point modified naphtha. [The complex combination of hydrocarbons obtained as a raffinate from a Long 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.]	68425-35-4	C				
1,3-Butadiene homopolymer (unmodified)	68441-48-3	C				
Hydrofluoric acid, reaction products with alumina and cobalt chloride (CoCl ₂)	68442-96-6	C				
Cobalt borate mordenite complexes	68443-13-6	C				
Cobalt, high-surface-II-olefin complexes	68443-68-6	C				
Chromium hydride oxide slimes	68443-69-2	C				
Alkanes, C1-2, Petroleum gas	68449-31-0	C				
Alkanes, C3-3, Petroleum gas	68449-38-1	C				
Alkanes, C3-4, Petroleum gas	68449-39-2	C				
Alkanes, C4-5, Petroleum gas	68449-39-5	C				
Aromatic hydrocarbons, C6-8, naphtha- <i>naphtha</i> pyrolysis-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 effluents. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C6 through C8, including benzene.]	68449-70-7	C				
Distillates (petroleum), catalytic reformed deparaffinizer. 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 C8 and boiling in the range of approximately - 49 °C to 63 °C (- 57 °F to 143 °F).]	68449-79-6	C				
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.]	68449-86-9	C				
Fuel gases, Petroleum gas. [A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.]	68449-26-6	C				
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).]	68449-29-9	C				
Fuel oil, residues- <i>straight-run</i> gas oils, high-sulfur. Heavy Fuel oil	68449-32-4	C				
Fuel oil, residual. Heavy Fuel oil. [The liquid product from vapour refinery streams, usually residual. The composition is complex and varies with the source of the crude oil.]	68449-33-6	C				
Hydrocarbons, C3-4, Petroleum gas	68449-40-4	C				
Hydrocarbons, C4-5, Petroleum gas	68449-42-4	C				
Hydrocarbons, C3-11, catalytic cracker distillates. 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 C3 through C11 and boiling in a range approximately up to 204 °C (400 °F).]	68449-48-0	C				
Hydrocarbons, C2-6, C6-8 catalytic reformer. Low boiling point cat-reformed naphtha	68449-47-1	C				
Hydrocarbons, C2-4, C3-rich, Petroleum gas	68449-49-3	C				
Hydrocarbons, C15, C5-6-rich. Low boiling point naphtha - unspecified	68449-50-6	C				
Hydrocarbons, C3-rich. Low boiling point naphtha - unspecified	68449-55-1	C				
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 - 49 °C to 80 °C (- 40 °F to 176 °F).]	68449-65-7	C				
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).]	68449-68-6	C				
Tar acids, residues, distillates, first-cut. Distillate Phenols. [The residue from the distillation in the range of 235 °C to 295 °C (451 °F to 697 °F) of light carbolic oil.]	68447-23-6	C				
Distillates (petroleum), catalytic reformer fractionator residue, high-boiling. Gasoil - unspecified. [A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 343 °C to 388 °C (650 °F to 750 °F).]	68447-29-2	C				
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 286 °C to 371 °C (550 °F to 700 °F).]	68447-30-5	C				
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 286 °C (550 °F).]	68447-31-6	C				
Gases (petroleum), C2-4, 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 C4, predominantly butane and isobutane. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C2 through C4, predominantly isobutane.]	68447-33-8	C				
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 2-methyl-2-butene. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C3 through C5, predominantly 2-methyl-2-butene.]	68447-34-9	C				
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 through C6. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C3 through C6, predominantly piperylene.]	68447-35-0	C				
Distillates (petroleum), cracked steam-cracked petroleum distillates. Cracked gasoil. [A complex combination of hydrocarbons produced by distilling cracked steam-cracked distillates and/or its fractionation products. It consists of hydrocarbons having carbon numbers predominantly in the range of C10 to low molecular weight polymers.]	68447-38-3	C				
Distillates (petroleum), polycond. steam-cracked petroleum distillates, C5-12 fraction. Low boiling point naphtha - unspecified. [A complex combination of hydrocarbons obtained from the distillation of polymerized steam-cracked petroleum distillates. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C5 through C12.]	68447-50-9	C				
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.]	68447-53-2	C				
Distillates (petroleum), steam-cracked, C5-10 fraction, mixed with light steam-cracked petroleum naphtha. C5 Fraction. Low boiling point naphtha - unspecified	68447-55-4	C				
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 amines. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers in the range of C4 through C6, predominantly C5.]	68447-61-2	C				
Gases (petroleum), amine system feed. Refinery gas. [The feed gas to the amine system for removal of H ₂ S and mercaptans. 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.]	68447-65-6	C				
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 C8, including benzene, may also be present.]	68447-66-7	C				
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.]	68447-67-8	C				
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.]	68447-68-9	C				
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 C6.]	68447-69-0	C				
Gases (petroleum), C2-3, Petro gas. [A complex combination of hydrocarbons produced by the distillation of products from a catalytic fractionation process. It contains predominantly ethane, ethylene, propene, and propyne.]	68447-70-3	C				
Gases (petroleum), catalytic-cracked gas oil deparaffinizer bottoms, C4-rich acid-free. Petroleum gas. [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked gas oil hydrocarbon streams and treated to remove hydrogen sulfide and other acidic components. It consists of hydrocarbons having carbon numbers in the range of C2 through C5, predominantly C4.]	68447-71-4	C				
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.]	68447-72-5	C				
Gases (petroleum), catalytic cracked naphtha deparaffinizer 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 C5.]	68447-73-6	C				
Gases (petroleum), catalytic cracker. Petroleum gas. [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	68447-74-7	C				
Gases (petroleum), catalytic cracker, C1-3-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 C3, predominantly C1 through C3.]	68447-75-9	C				
Gases (petroleum), catalytic polycond. 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.]	68447-78-9	C				
Gases (petroleum), catalytic reformed naphtha stripper overheads. Refinery gas. [A complex combination of hydrocarbons obtained from stabilization of catalytic reformed naphtha. It consists of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	68447-77-0	C				
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 C4, predominantly C2 through C4.]	68447-79-2	C				
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]	68447-80-5	C				
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 C8 and hydrogens.]	68447-81-6	C				
Gases (petroleum), C6-8 catalytic reformer recycle. Hydrogen-rich. Refinery gas	68447-82-7	C				
Gases (petroleum), C3-5, nitrile-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 temperature normally exceed the critical temperatures of these combinations.]	68447-83-8	C				
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 oxygen, carbon monoxide, methane, ethane, and ethylene with small amounts of hydrogen, nitrogen and carbon monoxide.]	68447-84-6	C				
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.]	68447-85-0	C				
Gases (petroleum), benzene overhead. 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.]	68447-86-1	C				
Gases (petroleum), deodorizer 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.]	68447-87-2	C				
Distillates (petroleum), deparaffinizer overheads. Low boiling 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.]	68447-89-9	C				
Gases (petroleum), deparaffinizer dry, propane-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	68447-90-7	C				
Gases (petroleum), deparaffinizer 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 C6.]	68447-91-8	C				
Gases (petroleum), dry sour gas- <i>concentrate</i> -unit. 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.]	68447-93-9	C				
Gases (petroleum), gas recon. reboiler distill. Refinery gas. [A complex combination of hydrocarbons produced by distillation of products from combined gas streams in a gas concentration reboiler. It consists predominantly of hydrogen, carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide and hydrocarbons having carbon numbers in the range of C1 through C3.]	68447-93-0	C				
Gases (petroleum), gas recovery plant deparaffinizer 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.]	68447-94-1	C				
Gases (petroleum), Gtibat unit feed. Petroleum gas. [A complex combination of hydrocarbons that is used as the feed into the Gtibat unit to remove hydrogen sulfide. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C4.]	68447-99-2	C				
Gases (petroleum), hydrogen deodorizer 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.]	68447-96-3	C				
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.]	68447-97-4	C				

	CAS/No.	C	HT	HT	Example of use / Exemptions	Effective Date
Gases (petroleum), hydrocracker blend oil recycles. hydrogen-nitrogen-rich. Refinery gas. [A complex combination obtained from recycled hydrocracked 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.]	68477-8-5	C				
Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free. Petroleum gas.	68477-9-6	C				
Gases (petroleum), naphtha 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.]	68478-0-2	C				
Gases (petroleum), reformer make-up, hydrogen-rich. Refinery gas. [A complex combination obtained from the reformer. 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.]	68478-1-3	C				
Gases (petroleum), reforming hydrocracker. Refinery gas. [A complex combination obtained from the reforming hydrocracking 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 C1 through C5.]	68478-2-4	C				
Gases (petroleum), reforming hydrocracker. Hydrogen-methane-rich. Refinery gas. [A complex combination obtained from the reforming hydrocracking 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.]	68478-3-5	C				
Gases (petroleum), reforming hydrocracker make-up. Refinery gas. [A complex combination obtained from the reforming hydrocracking 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.]	68478-3-6	C				
Hydrogen-rich. Refinery gas. [A complex combination obtained from the reforming hydrocracking 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.]	68478-3-7	C				
Residue (petroleum), butane splitter bottoms. Low boiling point naphtha - unspecified. [A complex residue from the distillation of butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C5.]	68478-12-6	C				
Residue (petroleum), catalytic reformer fractionator. Heavy Fuel oil. [A complex residue from the distillation of catalytic reformer fractionator residue. It boils approximately above 399° C (750° F).]	68478-13-7	C				
Residue (petroleum), C6-B catalytic reformer. Low boiling point cat-reformed naphtha. [A complex residue from the catalytic reforming of C6-B feed. It consists of hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]	68478-15-9	C				
Residue oil (petroleum), distillation tower. Low boiling point naphtha - unspecified. [A complex residue from the atmospheric distillation of the butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C5.]	68478-16-0	C				
Residue (petroleum), heavy color gas oil and vacuum gas oil. Heavy Fuel oil. [A complex combination of hydrocarbons produced as the residual fraction from the distillation of heavy color 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).]	68478-17-1	C				
Tail gas (petroleum), catalytic cracked effluent oil and thermal cracked vacuum residue fractionator reflux drum. Petroleum gas. [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked effluent oil and thermal cracked vacuum residue. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	68478-21-7	C				
Tail gas (petroleum), catalytic cracked naphtha fractionation 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.]	68478-22-6	C				
Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfurizer combined fractionator. Petroleum gas. [A complex combination of hydrocarbons obtained from the fractionation of products from tail gas, catalytic reformer and hydrodesulfurization processes treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	68478-24-0	C				
Tail gas (petroleum), catalytic cracker reformation. Refinery gas. [A complex combination of hydrocarbons obtained from reformation of products from a catalytic cracking process. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	68478-25-1	C				
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.]	68478-26-2	C				
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 C5.]	68478-27-3	C				
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.]	68478-28-4	C				
Tail gas (petroleum), cracked distillate hydrocracker 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.]	68478-29-5	C				
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 C5.]	68478-30-6	C				
Tail gas (petroleum), saturated 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 C1 through C5, predominantly butane and isobutane.]	68478-32-0	C				
Tail gas (petroleum), saturated gas recovery plant, C1-3-rich. Petroleum gas. [A complex combination of hydrocarbons obtained from fractionation of distillate tail gas, straight-run naphtha, catalytic reformed stabilizer tail gas. It consists predominantly of hydrocarbons having carbon numbers in the range of C1 through C5, predominantly methane and ethane.]	68478-33-1	C				
Tail gas (petroleum), vacuum residue 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.]	68478-34-2	C				
Distillate/bottoms/overhead	68479-98-1	D	C	0.01%		
4,4'-Azobis(4-cyanophenyl)propane	68511-80-6					
Residue (petroleum), heavy color and light vacuum. Heavy Fuel oil. [A complex combination of hydrocarbons produced as the residual fraction from the distillation of heavy color 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).]	68512-41-6	C				
Residue (petroleum), light vacuum. Heavy Fuel oil. [A complex residue from the vacuum distillation of the residual 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).]	68512-42-9	C				
Light naphtha (petroleum), light arom. Hydrocrated. 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 (275° F) to 410° F.]	68512-49-7	C				
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.]	68512-51-4	C				
Naphtha (petroleum), full-range naphtha. 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).]	68513-02-0	C				
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.]	68513-03-1	C				
Gases (petroleum), catalytic reformed straight-run naphtha stabilizer overhead. 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.]	68513-14-4	C				
Gases (petroleum), full-range straight-run naphtha. Refinery 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 C3 through C5.]	68513-15-5	C				
Gases (petroleum), hydrocracking deparaffinizer effluent. 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 and boiling above approximately 230° C (446° F).]	68513-16-6	C				
Gases (petroleum), light straight-run naphtha stabilizer effluent. 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.]	68513-17-7	C				
Gases (petroleum), reformer effluent high-pressure flash drum. 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.]	68513-18-8	C				
Gases (petroleum), reformer effluent low-pressure flash drum. Refinery gas. [A complex combination produced by the low-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	68513-19-9	C				
Distillates (petroleum), catalytic reformed straight-run naphtha overhead. 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 C5.]	68513-42-3	C				
Residue (petroleum), alkylation splitter, C4-rich. Petroleum gas. [A complex residue from the distillation of streams versus 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 (111° F to 82° F).]	68513-46-6	C				
Residue (petroleum), steam-cracked light. Heavy Fuel oil. [A complex residue from the distillation of 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 355° C (214° F to 1000° F).]	68513-49-1	C				
The basic, aromatic distillates. Distillates. Base. Gasoline, vapor-recovery. Low boiling point naphtha. [A complex combination of hydrocarbons separated from the gases from vapor recovery systems by distillation of products from a steam-cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately -29° C to 186° C (-4° F to 384° F).]	68514-10-1	C				
Hydrocarbons, C1-4. Petroleum gas. [A complex combination of hydrocarbons produced by thermal cracking and absorber operations and by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4 and boiling in the range of approximately minus 164° C to minus 0.5° C (-263° F to 31° F).]	68514-31-1	C				
Hydrocarbons, C1-4, sweetened. Petroleum gas. [A complex combination of hydrocarbons obtained by 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).]	68514-39-3	C				
Petroleum products, hydrofiner-powderformer reformates. Low boiling point cat-reformed naphtha. [The complex combination of hydrocarbons obtained in a hydrofiner- powderformer process and boiling in a range of approximately 27° C to 210° C (80° F to 410° F).]	68514-79-4	C				
2-Benzenebutyric acid di- (7-11)-branched and linear aliphatics. (CH2)N-2	68515-42-4	C				
1,2-Benzenebutyric acid di-, (8-11)-branched and linear aliphatics. (CH2)N-2	68515-44-6	C				
1,2-Benzenebutyric acid di-, (9-11)-branched and linear aliphatics. (CH2)N-2	68515-45-7	C				
1,2-Benzenebutyric acid di-, (10-11)-branched and linear aliphatics. (CH2)N-2	68515-46-8	C				
1,2-Benzenebutyric acid di-, (11-11)-branched and linear aliphatics. (CH2)N-2	68515-48-1	C				
1,2-Benzenebutyric acid di-, (12-11)-branched and linear aliphatics. (CH2)N-2	68515-49-2	C				
1,2-Benzenebutyric acid di-, (13-11)-branched and linear aliphatics. (CH2)N-2	68515-50-3	C				
1,2-Benzenebutyric acid di-, (14-11)-branched and linear aliphatics. (CH2)N-2	68515-51-4	C				
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).]	68516-20-1	C				
Gases, C12-24. Off-gas. 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 C12 and obtained by cracking ethane and propane. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C12, hydrogen, nitrogen, and carbon monoxide.]	68527-02-8	C				
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 -45° F).]	68527-16-2	C				
Gases (petroleum), steam-cracked. Cracked gasoil. [A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C3 and boiling in the range of from approximately 20° C to 400° C (68° F to 752° F).]	68527-19-4	C				
Hydrocarbons, C1-4, absorbent fraction. Petroleum gas. 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 C3 through C11 and boiling in the range of approximately -20° C to 220° C (-4° F to 428° F).]	68527-19-5	C				
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 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 C1 through C10 and boiling in the range of approximately 93° C to 180° C (200° F to 356° F).]	68527-20-2	C				
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 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).]	68527-21-1	C				
Naphtha (petroleum), light steam-cracked, deoxygenated. Low boiling point naphtha - unspecified. [A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C12 and boiling in the range of approximately 80° C to 210° C (176° F to 404° F).]	68527-26-4	C				
Naphtha (petroleum), full-range aliphatic, butane comb. Low boiling point modified naphtha. [A complex combination of hydrocarbons produced by the distillation of the reaction products of isobutane with monofunctional hydrocarbons usually ranging in carbon numbers from C3 through C9. It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C1 through C12 and boiling in the range of approximately 35° C to 200° C (95° F to 428° F).]	68527-27-5	C				

Substance	CAS-No.	C	P/T	D/T	Example of use / Exemptions	Effective Date
Fatty acids, C6-19-branched, zinc salts	68551-44-0	D / C		0,001		
Fuel oil No. 6: Heavy Fuel oil [A distillate oil having a minimum viscosity of 900 SUS at 37.1° C (100° F) to a maximum of 9000 SUS at 37.1° C (100° F)]	68552-90-4	C				
Tar acids, cresylic, medium Distillate Phenols [The residue from crude coal tar acids after removal of phenol, cresols, xyleneols and any higher boiling phenols. A black solid with a melting point approximately 80° C (176° F). Composed entirely of polyphenolics, resin acids, and inorganic salts.]	68555-24-8	C				
Hydrocarbon(2-pentylcarbazole)-30 isobutyl	68564-47-8	C				
Coalwater(1)-bis(2-[4,5-dihydro-3-methyl-5-oxo-1H-benzofuran-2-yl]ethyl)-4-hydroxybenzophenone(2'-[1]-hydroxy	68565-52-5	C				
Sulfuric acid, nickel(2+) salt (1:1) reaction products with solid and solid oxide (NiO)	68585-48-8	C				
Phenol, decahyd-1,4-bis(2)-salt	68588-21-0	R				
Gases (petroleum), burner and hydrocracker deparanizer 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 deparanizing. 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.]	68602-82-4	C				
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.]	68602-83-5	C				
Gases (petroleum), secondary absorber off, fluidized catalytic cracker overheads; Refinery gas; [A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidized 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 C2.]	68602-84-6	C				
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)]	68602-00-9	C				
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 of paraffinic and olefinic hydrocarbons, predominantly isoparaffins 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)]	68602-01-0	C				
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 isoparaffins 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)]	68602-03-2	C				
Naphtha (petroleum), arom.-contg.; Low boiling point naphtha - unspecified	68603-09-7	C				
Fatty acids, C6-19-branched, lead salts, basic	68603-82-8	R				
Crack oil, dehydrated, polymer with resin, calcium lead zinc salt	68604-05-2	R				
Gasoline, paraffinic, debutanizer bottoms; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from the fractionation of deparanizer bottoms. It consists of hydrocarbons having carbon numbers predominantly greater than C5.]	68606-10-0	C				
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 193.2° C (97° F to 380° F)]	68606-11-1	C				
Hydrocarbons, C2-8, Petroleum gas	68606-25-7	C				
Hydrocarbons, C3, Petroleum gas	68606-26-8	C				
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 C2 through C4.]	68606-27-9	C				
Gases (petroleum), deparanizer bottoms fractionation off; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of deparanizer bottoms. It consists predominantly of butane, isobutane and isodulcene.]	68606-34-8	C				
Petroleum products, refinery gases; Refinery gas; [A complex combination which consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	68607-11-4	C				
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.]	68607-30-7	C				
C.I. Pigment Violet 47	68610-24-9	R				
Phthalate, ethyl methyl derivatives	68610-21-3	R				
nickel barium titanium pinrose prindite; C.I. Pigment Yellow 153; C.I. 17390	68610-24-2	C				
Nickel-niobium-titanium yellow oxide	68611-43-6	C				
Hexamethyldisiloxane ether (C12H46Si2O)	68613-49-2	C				
Hexamethylcyclotrisiloxane	68613-57-5	C		0,01%		
Molybdate (Mo7O24)-1-cobalt(3+)(2-1)	68647-47-2	C				
Phthalic diisobutyl	68650-36-4	C				
Nickelate(1)-[4-[3,5-[3,5-dichloro-4-pyridinyl]carboxyl]amino]-2-pyridyl-ethyl]azido-4,5-dihydro-5-oxo-1-[3-[[[trisulfato-29H(31H)-phthalocyaninyl]sulfonyl]amino]-2-sulfonylphenyl]-1H-pyrazole-5-carboxylato(3-)-N(2)-N(2)-N(2)]	68658-50-6	C				
Nickel(2+), hexamine- [OD-6-1(1)-diformate hexahydrate]	68758-00-1	C				
[(1,1'-Biphenyl)-w,w'-diol, tetrabromo-; polymer with chloromethylstyrene and 4,4'-di-	68758-75-8	R				
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.]	68762-00-6	C				
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 distillates. It consists of saturated and aromatic hydrocarbons having carbon numbers predominantly in the range of C20 through C30.]	68762-04-0	C				
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 C2.]	68762-06-2	C				
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.]	68762-07-3	C				
Gas oil (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 C20 and boiling in the range of approximately 121° C to 510° C (250° F to 950° F)]	68762-08-4	C				
Naphtha (petroleum), catalytic cracked light distil; 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.]	68762-09-5	C				
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 (32° F to 446° F)]	68763-12-0	C				
Residues (petroleum), color remover; Condensed-ring-arom.-contg.; Heavy Fuel oil; [A very complex combination of hydrocarbons produced as the residual fraction from the distillation of vacuum 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 300° C (562° F). This stream is likely to contain 5 wt% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	68763-13-1	C				
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 C2 through C6.]	68762-44-2	C				
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 -31° C to -34° C (-24° F to -30° F)]	68762-55-3	C				
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 C4 through C6 and boiling in the range of approximately -30° C to 100° C (-4° F to 212° F)]	68762-66-4	C				
DTDMAC	68763-78-6	D			Scania 2014: Vehicle care products; Vehicle care products; (Scania, 2010): softener, rinsing agent, vehicle care products	26.02.1998
Silic acid, barium salt (1:2), lead-doped; acid (H2SiO3), barium salt (1:1), lead-doped	68764-75-8	D / C			Scania 2014: Coating of buffer Application: Paint	Scania 2014: 19.12.2012
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.]	68814-61-5	C				
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 distillates.]	68814-89-1	C				
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.]	68814-90-4	C				
Tar acids, cresylic, sodium salts, caustic soaps; Alkaline sulfate	68819-21-4	C				
Mercury azobides	68823-35-5	R				
Tri-n-butyltin hydride/ Tributyltin (and salts and esters)	6887-73-3	D / C		0,01%		
2-Ethylhexyl methacrylate	688-84-0	C				
Boron(1)-bis(2,4-pentanedionato-O,O')-(T-4)-, isocyclopentadienyl(1-)	68882-01-3	C				
2,4-Dichlorobenzene-1-one, 3,5,6-trihydroxy-4,6-bis(2-methyl-2-butenoyl)-2-(3-methyl-2-methoxy)-, lead salt (R)-alpha-D-Glucopyranose, 1-(dihydrogen phosphate), lead salt	68891-11-1	R				
Gases (petroleum), hydrotreated sour kerosene deparanizer stabilizer off; Refinery gas; [The complex combination obtained from the deparanizer stabilization of hydrotreated kerosene. 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.]	68891-12-2	C				
Gases (petroleum), hydrotreated sour kerosene flash drum; Refinery gas; [A complex combination obtained from the flash drum of the unit treating sour kerosene with hydrogen in the presence of a catalyst. It consists primarily of hydrogen and methane with various small amounts of nitrogen, carbon monoxide, and hydrocarbons having carbon numbers predominantly in the range of C2 through C5.]	68891-59-1	C				
Nickel, bis(2-hydroxyethyl-1H-imidazole-3H-yl)nickelate-O-	68892-08-5	C				
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.]	68892-59-0	C				
Gases (petroleum), deparanizer 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.]	68892-90-6	C				
Gases (petroleum), distillate unifier desulfurization stripper off; Refinery gas; [A complex combination stripped from the liquid product of the unifier desulfurization process. It consists of hydrogen sulfide, methane, ethane, and propane.]	68892-91-7	C				
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.]	68892-92-8	C				
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.]	68892-93-9	C				
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.]	68892-94-0	C				
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.]	68892-95-1	C				
Gases (petroleum), naphtha unifier desulfurization stripper off; Petroleum gas; [A complex combination of hydrocarbons produced by a naphtha unifier 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.]	68892-96-2	C				
Gases (petroleum), platformer stabilizer off, light ends fractionation; Refinery gas; [A complex combination obtained by the fractionation of the light ends of the platformer reactors of the platformer unit. It consists of hydrogen, methane, ethane and propane.]	68892-97-3	C				

27/45

28/45

29/45

Substance	CAS-No.	C	P	R	D	Example of use / Exemption	Effective Date
Lead or its compounds	7439-92-1	D	0.10%	0.10%		Volvo 2012: Lead-containing stabilizers, pigments, corrosion inhibitors. Applies to all uses of lead not covered by prohibition in DTG 100-0002. Volvo's black list: Volvo's batteries, lead-bromine heating shells and burnings, vibration dampers, solder in electronic circuit boards and other electronic applications, electrical components containing lead in a glass or ceramic matrix, the glass in bulbs and the glass of spark plugs, all welded and all casted, all carbon brushes in electronic motors, (Ford, 2013) Electrical components which contain lead in a glass or ceramic matrix compound, except glass in bulbs and glass of spark plugs (?)	
Lead, metallic	7439-92-1	P	0.03%			Volvo 2015: alloys, solder	Before 01.02.2008
Lead	7439-92-1	R					
Mercurane	7439-99-9	D					Prohibited if type approved after 30.06.2012 (*)
Mercury	7439-97-6	P	0.10%			Fluorescent tubes used in instrument panel displays	
Mercury	7439-97-6	P	10 mg 5 mg 8 mg	10 mg 5 mg 8 mg		for ballast formed fluorescent lamps for general purposes	01.07.2006
Mercury with normal life cycle Triphenylmethane with long life cycle	7439-97-6	P	0.10%	0.10%		Volvo 2014: Pigments, preservatives, constituents in electronic equipment; (Ford 2013): High Intensity Discharge Lamps (y); High Intensity Discharge Lamps, (Ford, 2013): (*)	Volvo 2014: Before 01.02.2008/ Prohibited for scalability LPS, LPS program launches (y) Ford 2013: Immediate
Mercury and its compounds	7439-97-6	P	0.10%	0.10%			
Mercury or its compounds	7439-97-6 (Several)	P / R	0.10%	0.10%		Scania 2014: Electric equipment; Bosch 2012: limit value valid only for business division Drive and Control Technology (Bosch Research AG and affiliates); 0.1 m% in coating materials for torque and engine for surface treatment; prohibited in certain applications; coating in fluorescent tubes, measuring instruments, switches, wood preservative, electrodes; Volvo 2012: pigments, preservatives, constituents in electronic equipment; all products, electrical equipment, metallic machinery, and inorganic and organic mercury compounds used in high intensity discharge (HID) lamps, electric switches, luminescent material for instrument cluster lighting, pyrotechnic, elastomers etc. except those listed below 0.1% for impurities, any intentionally introduced content must be reported	Scania 2014: 24.02.1998
Molybdenum	7439-98-7	D					Scania 2014: 15.08.2002
Nickel	7440-02-0	D / C				Scania 2014: Surface treatment Application: Only application to component surface treatment exceeding the limit values for Nickel release (0.5 µg Nickel/cm²/week) Test methods are EN 1811+A1:2008 and EN 12472:2005.	Scania 2014: 15.08.2002
Nickel or its compounds	7440-02-0	D	0.5 mg/cm² week (Ni release rate threshold)	0.5 mg/cm²/week Ni release rate (threshold)		(Ford 2013): Component surfaces likely to be routinely touched, e.g. handles and buckles (release rate as determined by test method EN 1810:1998 and BS EN 1811:1998) as follows: Exemptions: phosphated surfaces	Immediate
Nickel or its compounds	7440-02-0	P	0.1%			(Ford 2013): Dry Friction Materials (e.g. brake and clutch pads); Bosch 2012: Prohibited in certain applications;	Immediate
Nickel or its compounds	7440-02-0	D	0.10%	0.10%		(Ford 2013): All products, except stainless steels likely containing metallic nickel; Volvo 2012: Surface treatment: Only applicable to component surface coating. According to EU directive 94/27/EC, exceeding the limit values for nickel release (0.5 µg nickel/cm²/week) European Standard EN 1810:1998 and EN 12472:1998; Surface treatment, Welding electrodes, flame spraying, special materials, component in metals Exemptions: stainless steels and alloys containing metallic nickel; (Scania, 2010): Only applicable to component surface treatment exceeding the limit values for Nickel release (0.5 µg Nickel/cm²/week) Test methods are EN 1811+A1:2008 and EN 12472:2005	Ford 2013: Immediate
Nickel, Metallic	7440-02-1	D	0.1%			Volvo 2014: Surface treatment: Application: Only applicable to component surface coating exceeding the limit values for nickel release according to EC No. 1907/2006 (REACH, Annex XVII), that is 0.5 µg nickel/cm²/week when tested in accordance with EN 1811:2011 and EN 12472:1998+A1:2009	Before 01.02.2008
Radium	7440-14-4	D					
Silicone	7440-21-3	P	1 ppm	1 ppm		In anti-corrosion agents, abrasives, cleaning agents, coating materials, emulsion cleaners and fuel cleaners	
Thallium or its compounds	7440-28-0	D	0.10%	0.10%		Electric components, sensors; (4.9.08) Ford: all products	
Thallium	7440-28-0	D					
Tin	7440-31-6	D					
Tin organic compounds (anti-fouling paints - components) tin and thallium compounds	7440-31-6	P				Prohibited for water treatment	
Antimony	7440-36-0	M / C	0.10%				
Arsonic or its compounds/ Organoarsenic compounds	7440-38-2	P	0.01%	0.01%		Paints, smelted materials, bionides (including wood treatment), leather and textile finishes, water treatment agents, flat glasses, adhesive for metal, pyrotechnic objects, metal finishes, electronics	Immediate
Arsonic or its compounds	7440-38-2	D / C	0.01%	0.10%		(Ford 2013): All Products; (Bosch 2012): prohibited in certain applications; Occurrence in lamp glass, wood preservatives, dyes; Volvo 2012: paint, smelted material, bionides (including wood treatment), leather and textile finish, glass, pyrotechnic objects, metal finish, electronics; all products; Renault 2007: wood protection, wood seal, pesticide	Volvo 2015: 15.03.2014. Greylisted before 01.02.2006
Barium or its compounds (organic or water soluble)	7440-39-3	D	0.10%	0.10%		(Ford 2013): All Products; all products	Immediate
Barium	7440-39-3	D					
Beryllium or its compounds (Beryllium alloys; Beryllium salts or oxides)	7440-41-7	D / C	0.10%	0.10%		as alloying element in metals, Electric contacts, relays and switches; (Ford, 2010): all products	
Boron and its compounds	7440-42-8	P / C	3%	3%		in lubricants (lubricated as element)	
Cadmium or its compounds	7440-43-9	P	75 ppm	75 ppm		for Pigment stabilizers in polymers, pigments, paints and plastics (unless intentionally introduced; (Scania, grey, 2010): accumulators (Bosch, 2010): prohibited in certain applications	
Cadmium or its compounds	7440-43-9	P	0.01%	0.01%		Scania 2014: Pigment; Volvo 2014: pigments in paints and plastics, electronics / batteries, accumulators, batteries for electric vehicles, for impurities, any intentionally introduced content must be reported; batteries for electric vehicles	Scania 2014: 24.02.1998 Volvo 2014: Before 01.02.2008
Cadmium or its compounds	7440-43-9	P	0.0001	0.0001		(Ford 2013): All applications except those listed below in 400: for NiCd batteries as replacement parts for vehicles put on the market before 1. Jan. 2008 (declaration required); Ford-Lite (13.08): NiCd batteries used as replacement parts for vehicles put on the market before 31 Dec 2008; (Ford, 2010): Classification "P"; All applications except those listed below: Batteries for electric vehicles, except NiCd batteries, used as replacement parts for vehicles put on the market before 31 Dec 2008; Classification "D"; NiCd batteries used as replacement parts for vehicles put on the market before 31 Dec 2008; Applications with future effective dates for prohibitions are deletable.	Ford 2013: Immediate; "P" Prohibited after 31-Dec-08 / "D" immediate
Cadmium or its compounds	7440-43-9	D / R		0.01%		(Ford 2013): Batteries for electric vehicles used as replacement Parts for vehicles put on the market before 31 Dec 2008. Only for non-vehicle application. Recovered PVC - Blowing filters used for safety reasons. Zinc containing paints with more than 10% Zinc (Cadmium prohibition threshold for these zinc paints is 0.1%)	Ford 2013: Immediate
Chromium	7440-47-3	D / C		0.0001			01.07.2006
Cobalt or its compounds (Cobalt alloy)	7440-48-4	D / C	0.001	0.001		Cobalt compounds and alloys	Ford 2013: Immediate
Copper (metals) and copper compounds	7440-50-8	D / C	0.001			In polymer materials and their intermediate products; (3.8.08) Ford: in all products	
	7440-50-8	D / C	0.001				
Mercury	7439-97-6	D					
Mercury or its compounds	7439-97-6	P / R	0.10%	0.001%		wood protection	
Lead	7439-92-1	R					
Selenium disulfide	7440-08-4	D	0.01%				
Lead sulfide	7440-19-2	P / R	0.10%	0.001%		Pigment	
Thallous sulfate	7440-19-3	D					
Thallous sulfate	7440-19-3	D					
Zinc sulfate heptahydrate	7440-20-0 (E181)	D	0.01%				
Dioxine perchlorate	7440-26-0	D	0.01%				
Triethyl borate	7440-27-1	R					
Selenium disulfide	7440-08-4	D	0.01%				
Copper disulfide	7440-08-4	D	0.01%				
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	7440-08-4	C					
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	7440-08-4	C					
Triethyl borate	7440-27-1	R					
Salts of 4,4'-dichlorodiphenyl	7440-08-4	C					
Methyl bromide/bromomethane	7440-08-4	P					
Lubricating greases; Greases: [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 aluminum compounds.]	7440-08-4	C					
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]	7440-08-4	C					
Chloromethane	7440-08-4	D / C	0.10%	0.10%			
Mercury(II) chloride	7487-94-7	P / R	0.10%	0.001%		wood protection	
Lead acetate	7487-94-7	P / R	0.10%	0.001%		wood protection	
Selenium disulfide	7440-08-4	D	0.01%				
Methanamine	7440-08-4	M / C	0.10%				
Hydrogen cyanide	7440-08-4	D					
Chloromethane/bromomethane	7440-08-4	D					
Methyl mercaptan and its isoprenes	7440-08-4	D					
Bromomethane (methyl bromide)	7440-08-4	D					
Bromochloromethane	7440-08-4	P					
Vinyl chloride	75-01-4	P	5 ppm	5 ppm		Volvo 2014: Residual monomer in PVC-based adhesives and sealants; Bosch 2012: prohibited; used in PVC production; Volvo 2012: Residual monomer in PVC-based adhesives and sealants; Residual monomer in polymers, vinyl chloride monomer in materials; (4.9.08) Ford: all products; (Bosch, Renault, 2010): PVC production	Volvo 2014: 15.03.2010
Ethylamine	75-08-3	M					
Acetone	75-08-3	D	0.10%			Component in high-capacity capacitors	
Acetaldehyde	75-07-0	D / C	0.10%	0.10%			
Dichloromethane (Methylene chloride) Methylenebromide	75-09-2	P	0.10%	0.10%		Scania 2014: Solvent; Bosch 2012: 0.1 m% in paint removers with exceptions; (4.9.08) Volvo black list in fuel; (Scania, Renault 2007) Solvent; (Ford, 2010): all products	Scania 2014: 24.02.1998
1-Propargene, N,N-dimethyl-, cobalt complex	75101-49-6	C					
Di-iso-o-butylaluminumhydride, dihydrihydride (DIBAL-H)	751133-09-0	P / C	0.001	0.0001		Bosch 2012: Prohibition as pure substance and 0.1m% in mixtures	
Formamide	75-12-7 (84-00)	D					18.06.2012
Carbon disulfide separating substances	75-15-0	P / C	0.001	0.01		Carbon disulfide separating substances; Emulsion distance from vulcanized elastomers; (Ford, 2010); all products	
Cobaltate(1-) bis[2-[2-(2,3-dichlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75124-47-4	C					
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75124-71-0	C					
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75124-72-1	C					
Ethylene oxide	75-21-8	P / D / C	0.001	0.0001		surfactants, sterilization	
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75234-42-3	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
2-Bromopropane	75-28-3	D					
Bromochloromethane/dichloromethane	75-27-4	M / C	0.10%				
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75284-36-5	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Dichloromethane	75-28-3	D					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Ethylene oxide	75-21-8	P / D / C	0.001	0.0001		surfactants, sterilization	
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75234-42-3	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
2-Bromopropane	75-28-3	D					
Bromochloromethane/dichloromethane	75-27-4	M / C	0.10%				
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75284-36-5	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Dichloromethane	75-28-3	D					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Ethylene oxide	75-21-8	P / D / C	0.001	0.0001		surfactants, sterilization	
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75234-42-3	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
2-Bromopropane	75-28-3	D					
Bromochloromethane/dichloromethane	75-27-4	M / C	0.10%				
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75284-36-5	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Dichloromethane	75-28-3	D					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Ethylene oxide	75-21-8	P / D / C	0.001	0.0001		surfactants, sterilization	
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75234-42-3	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
2-Bromopropane	75-28-3	D					
Bromochloromethane/dichloromethane	75-27-4	M / C	0.10%				
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75284-36-5	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Dichloromethane	75-28-3	D					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Ethylene oxide	75-21-8	P / D / C	0.001	0.0001		surfactants, sterilization	
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75234-42-3	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
2-Bromopropane	75-28-3	D					
Bromochloromethane/dichloromethane	75-27-4	M / C	0.10%				
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75284-36-5	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Dichloromethane	75-28-3	D					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Ethylene oxide	75-21-8	P / D / C	0.001	0.0001		surfactants, sterilization	
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75234-42-3	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
2-Bromopropane	75-28-3	D					
Bromochloromethane/dichloromethane	75-27-4	M / C	0.10%				
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75284-36-5	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Dichloromethane	75-28-3	D					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Ethylene oxide	75-21-8	P / D / C	0.001	0.0001		surfactants, sterilization	
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75234-42-3	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
2-Bromopropane	75-28-3	D					
Bromochloromethane/dichloromethane	75-27-4	M / C	0.10%				
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75284-36-5	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Dichloromethane	75-28-3	D					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Ethylene oxide	75-21-8	P / D / C	0.001	0.0001		surfactants, sterilization	
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75234-42-3	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
2-Bromopropane	75-28-3	D					
Bromochloromethane/dichloromethane	75-27-4	M / C	0.10%				
Cobaltate(1-) bis[4-[4-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamide(2-)-, sodium	75284-36-5	C					
1,1,1,2,2,2-Hexafluoroethane	75-28-3	D					
Dichloromethane	75-28-3	D					

31/45

32/45

33/45

[illegible]

000090540_D1_Stoffliste-Restricted Substances List; R06 Public

Substance	CAS-No.	C	P/T	D/T	Example of use / Exemptions	Effective Date
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 C25.]	9040-99-3	C				
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 C25.]	9040-97-4	C				
Extract oils (coal), light oil, Acid Extract; The aqueous extract produced by an acid wash of alkali-washed carbolic oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]	9040-99-9	C				
Extract oils (coal), naphthalene oils, Acid Extract; [The aqueous extract produced by an acidic wash of alkali-washed naphthalene oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]	9041-00-2	C				
Extract residues (coal), light oil alk. and ext. ext. Carbolic Oil 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, indene and aliphatics.]	9041-01-3	C				
Extract residues (coal), light oil alk., dists. overheads, Light Oil Extract Residues, low boiling; [The first fraction from the distillation of aromatic hydrocarbons, coumarone, naphthalene and indene rich prefractionator bottoms or washed carbolic oil boiling substantially below 145 ° C (293 ° F). Composed primarily of C7 and C8 aliphatic and aromatic hydrocarbons.]	9041-02-4	C				
Extract residues (coal), light oil alk., indene naphth fraction, Light Oil 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 185 ° C to 185 ° C (311 ° F to 356 ° F). Composed primarily of indene, indene and trimethylbenzenes.]	9041-03-5	C				
Extract residues (coal), naphthalene oils, alk. dists. overheads, Naphthalene Oil Extract Residue; [The distillate from alkali-washed naphthalene oil having an approximate distillation range of 180 ° C to 220 ° C (356 ° F to 425 ° F). Composed primarily of naphthalene, alkybenzenes, indene and indene.]	9041-04-6	C				
Extract residues (coal), naphthalene oils, alk. dists. overheads, Methylnaphthalene Oil Extract Residue; [The residue from the distillation of alkali-washed naphthalene oil having an approximate distillation range of 220 ° C to 260 ° C (425 ° F to 500 ° F). Composed primarily of naphthalene, alkylnaphthalenes and aromatic nitrogen bases.]	9041-05-7	C				
Extract residues (coal), tar oil alk., carbonated, treated, Crude Phenols; [The product obtained by treatment of coal tar oil alkaline extract with CO2 and CaO. Composed primarily of CaC2O3, Ca(OH)2, Na2CO3 and other organic and inorganic impurities.]	9041-06-6	C				
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 C30 and produces a finished oil of at least 19cSt at 40 ° C (100 cSt at 100 ° F).]	9041-07-9	C				
Extracts (petroleum), heavy paraffinic distillate solvent, hydrotreated Distillate aromatic extract (treated); [A complex combination of hydrocarbons obtained 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 200 ° C to 400 ° C (392 ° F to 752 ° F).]	9041-08-0	C				
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 C28 and boiling in the range of approximately 280 ° C to 400 ° C (536 ° F to 752 ° F).]	9041-08-1	C				
Light oil (coal), semi-cooking 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 C8-10 hydrocarbons.]	9041-11-5	C				
Naphtha (coal), dists. residues, Light Oil Redistillate, high boiling; [The residue remaining from the distillation of recovered naphtha. Composed primarily of naphthalene and condensation products of indene and styrene.]	9041-12-6	C				
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.]	9049-57-1	C				
Pitch, coal tar, low-temp, heat-treated; Pitch Residue, oxidized; 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 components.]	9049-58-2	C				
Pitch, coal tar, low-temp, oxidized; Pitch Residue, oxidized; [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.]	9049-59-3	C				
Residual oils (petroleum), hydrotreated solvent dewaxed, Baseoil – unspecified	9049-74-2	C				
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.]	9049-75-3	C				
Residues (petroleum), vacuum, light, Heavy Fuel oil; [A complex residue from the vacuum distillation of the residue from atmospheric distillation of crude oil. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C24 and boiling above approximately 380 ° C (724 ° F).]	9049-76-4	C				
Slack wax (petroleum), acid-treated; Slack wax; [A complex combination of hydrocarbons obtained 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.]	9049-77-5	C				
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.]	9049-78-6	C				
Ammonium polyacrylate	9049-17-5	C				
4,4-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8 (202-027-6)	D / C			Scania 2014: Intermediate for the manufacturing of paint and coloring agent.	Scania 2014: 15.06.2012
Aromatic hydrocarbons, CB, Light Oil Redistillate, high boiling	9099-39-1	C				
Aromatic hydrocarbons, CB-10, Low boiling point naphtha – unspecified	9099-39-2	C				
Aromatic hydrocarbons, CB-10, CB-rich, Light Oil Redistillate, low boiling	9099-41-6	C				
Aromatic hydrocarbons, CB-8, desulfurization products, dists. overheads, Low boiling point naphtha – unspecified	9099-42-7	C				
Fatty acids, CB-19, branched, lead salts	9100-20-9	R				
Fatty acids, CB-8, lead salts	9101-61-4	R				
Fatty acids, CB-10, lead salts	9101-61-7	R				
Fatty acids, C16-18, lead salts	91031-62-8	D/R			Scania 2014: Plastic products/ Application: Stabilizers for PVC	Scania 2014: 15.12.2012
Naphthenic acids, lead (Pb) salts	91079-81-8	R				
Phenols, CB-11, Distillate, Phenols	91079-81-9	C				
Resin acids and Resin acids alkyl salts	91081-53-7	C				
Tar, coal, storage residues, Coal Tar Solids Residue; [The material removed from solids coal tar streams. Composed primarily of coal tar and carbonaceous particulate matter.]	91081-50-7	C				
Tar bases, coal, Indene fraction, Distillate, Resin	91081-52-8	C				
Tar bases, coal, Indene fraction, Distillate, Resin	91081-53-0	C				
2,6-Toluene diisocyanate	91-08-7	D		0,01%	PUR foams, adhesives (hardware)	26.02.2002
Diurethane	91-14-5	D				
Naphthalene	91-20-3	D / P		0,10%	Polyester coating, PVC; (4,9.08) Bosch Xch, harmful; Carc; Cat.3 substances, to be suspected to be carcinogenic;	
Quinoline	91-20-9	C				
2-Nitroaniline	91-21-6	C				
2-Methylanthracene	91-81-6	C				
2-Naphthylamine or its salts	91-59-8	P	0,01%	0,01%	Bosch 2012: Prohibited as pure substance and 0,1% in mixtures, (Ford, 010); all products; Renault 2007: azo dyes synthesis, azobenzene	
Isodecanoic acid, lead(2+) salt, basis	91871-82-8	R				
Isodecanoic acid, lead(2+) salt, basis	91871-83-9	R				
Isodecanoic acid, lead(2+) salt, basis	91871-84-0	R				
Extract residues (coal), brown; Coal Tar Extract; [The residue from extraction of distillate.]	91887-23-3	C				
Fatty acids, ester-oil, hydrocarbonated, lead salts	91887-26-5	R				
Fatty acids, CB-19, branched, coal salts	91887-61-6	R				
Thiourea isocyanate	91733-03-2	C				
Acetic acid, cobalt(2+) salt	917-89-1	C				
Residual oils (petroleum), catalytic dewaxed, Baseoil – unspecified	91770-27-6	C				
Phosphonotributyl acid mixed O,O'-diethyl and pentyl esters, lead(2+) salt	91782-10-7	R				
3,3-Dichlorobenzidine	91-94-1	P/C	0,10%	0,01%	azo dyes synthesis	
1,2-Dichlorobenzene-4,4'-diol, diisopropyl	91-95-2	C				
Anthracene oil, acid ext., Anthracene Oil Extract Residue; [A complex combination of hydrocarbons from the first low-boiling 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 consists predominantly of anthracene and phenanthrene and their alkyl derivatives.]	91995-14-1	C			Bosch 2012: 0,1, however prohibited for developing new materials or material alterations	Scania 2014: 23.02.2010
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	D/C	0,1			
Anthracene oil, anthracene paste, carbazole fraction, Anthracene Oil Fraction; [A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthracene 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 anthracene, carbazole and phenanthrene.]	91995-16-3	C				
Anthracene oil, anthracene paste, distn. Lights	91995-17-4 (295-278-6)	D/C				Scania 2014: 23.02.2010
Aromatic hydrocarbons, CB, catalytic reforming-derived, Low boiling point acid-reformed naphtha	91995-18-5	C				
Aromatic hydrocarbons, CB-8, hydrocarbon resin polymers, by-product, Light Oil 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 CB through CB9 and boiling in the range of approximately 190 ° C to 210 ° C (384 ° F to 418 ° F).]	91995-20-9	C				
Distillates (petroleum), alkene-alkyne manifold, pyrolysis oil, mixed with high-temp. coal tar, indene fraction, Redistillate; [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).]	91995-21-2	C				
Distillates (petroleum) catalytic reformer, heavy arom. concs., Baseoil – 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 260 ° C (392 ° F to 502 ° F).]	91995-24-5	C				
Distillates (coal), coal tar-residual pyrolysis oils, naphthalene oils, Redistillate; [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 dicarboxylic aromatics.]	91995-25-6	C				
Hydrocarbons, C4-6, desparaffinized lights, arom. hydrotreated; Low boiling point naphtha – unspecified [A complex combination of hydrocarbons obtained as first runnings from the desparaffinizer column before hydro-treatment of the aromatic charges. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C4 through C6, predominantly paraffinic and aromatic, and boiling in the range of approximately 25 ° C to 40 ° C (77 ° F to 104 ° F).]	91995-28-9	C				
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 C29 and produces a finished oil with a viscosity of approximately 44 cSt at 50 ° C.]	91995-30-0	C				
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.]	91995-40-3	C				
Distillates (petroleum), heat-soaked steam-cracked naphtha, CB-rich, Low boiling point naphtha – unspecified [A complex combination of hydrocarbons obtained by distillation of heat-soaked steam-cracked naphtha] consists predominantly of hydrocarbons having carbon numbers in the range of C4 through C6, predominantly C5.]	91995-41-4	C				
Distillates (coal tar), heavy oils, pyrolysis fraction, Heavy Anthracene Oil 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). It consists predominantly of tri- and polynuclear aromatics and heterocyclic hydrocarbons.]	91995-42-5	C				
Distillates (petroleum), hydrosolvent solvent-refined, dewaxed, Baseoil – unspecified [A complex combination of liquid hydrocarbons obtained by recrystallization of dewaxed hydrocracked solvent-refined petroleum distillates.]	91995-45-8	C				
Distillates (coal tar), naphthalene oils, acid exts., Methylnaphthalene Oil 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 295 ° C (446 ° F to 553 ° F). Contains chiefly 1(2)-methylnaphthalene, 2(1)-methylnaphthalene and biphenyl.]	91995-48-1	C				
Distillates (coal tar), naphthalene oil, erythrol, mother liquor; Naphthalene Oil 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). It contains chiefly naphthalene, 1-methylnaphthalene and 2-methylnaphthalene.]	91995-49-2	C				
Distillates (petroleum), naphtha steam cracking-derived, hydrotreated light arom.; Low boiling point acid-cracked naphtha; [A complex combination of hydrocarbons obtained by treating a light distillate from steam-cracked naphtha] consists predominantly of aromatic hydrocarbons.]	91995-50-5	C				
Distillates (coal tar), pitch, heavy oils, Heavy Anthracene Oil; [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 420 ° C (572 ° F to 878 ° F). The product may also contain heteroatoms.]	91995-51-6	C				

Substance	CAS-No.	C	P/T	D/T	Example of use / Exemptions	Effective Date
Distillates (coal tar), pitch, pyrene fraction: Heavy Antiveneer Oil Redistillate: [The redistillates obtained from the fractional distillation of pitch distillate and boiling in the range of approximately 380° C to 410° C (716 to 770 ° F)] F1 Composed primarily of tri- and polycyclic aromatic hydrocarbons and heterocyclic compounds.]	91895-12-7	C				
Distillates (petroleum), naphtha steam cracking-derived solvent-refined light hydrotreated: Low boiling point modified naphtha: [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process of hydrotreated light distillate from steam-cracked naphtha.]	91895-53-8	C				
Distillates (petroleum), solvent-refined light naphthenes, hydrotreated: Basell – unspecific: [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 C13 through C26 and produces a finished oil with a viscosity of between 13-15cSt at 40° C.]	91895-54-9	C				
Cracked residues (coal, brown-coal-high-temp, tar, Coal Tar Extract: [A complex combination of hydrocarbons obtained from the light fraction carbonized tar by solvent crystallization (solvent deoiling), by sweetening or an adding 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.]	91895-61-8	C				
Extract oils (coal, coal tar-residual-pyrene oils, naphthalene oil, redistillate: Redistillates: [The redistillate from the fractional distillation of dephenolated and deashed methyl-naphthalene 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 unsaturated and substituted disubstituted aromatic hydrocarbons.]	91861-66-3	C				
Extracts (petroleum), catalytic refined light naphtha solvent: Low boiling point naphtha – unspecific: [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 185° C to 200° C (313° F to 392° F).]	91895-68-5	C				
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 C26.]	91895-73-2	C				
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 C26. This stream is likely to contain 5 wt% or more of 4- to 6-membered condensed ring aromatic hydrocarbons.]	91895-75-4	C				
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 primarily in the range of C16 through C22.]	91895-76-5	C				
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 aromatic hydrocarbons having carbon numbers predominantly in the range of C13 through C26 and produces a finished oil with a viscosity of greater than 16cSt at 40° C.]	91895-77-6	C				
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 C26.]	91895-79-8	C				
Fatty acids, coco, lead salts	92041-88-8	R				
Fuel oil, heavy: 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 C26 and boiling above approximately 400° C (752° F).]	92041-12-0	C				
Gases (petroleum), gas oil deethanolamine scrubber off: Refinery gas: [A complex combination produced by desulfurization of gas oils with deethanolamine. It consists predominantly of hydrogen sulfide, hydrogen and aliphatic hydrocarbons having carbon numbers in the range of C1 through C5.]	92045-15-3	C				
Gases (petroleum), gas oil dehydrodesulfurization effluent: Refinery gas: [A complex combination obtained by separation of the liquid phase from the effluent from the hydrodesulfurization reaction. It consists predominantly of hydrogen, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]	92045-16-4	C				
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.]	92045-17-5	C				
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.]	92045-18-6	C				
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.]	92045-19-7	C				
Gases (petroleum), residue visbreaking off: Refinery gas: [A complex combination of hydrocarbons obtained from the residue in a furnace. It consists predominantly in the range of C1 through C5.]	92045-20-0	C				
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 butane in the range of approximately –70° C to 0° F (–54° F to 32° F).]	92045-22-2	C				
Hydrocarbons, C4, steam-cracker distillate: Petroleum gas: [A complex combination of hydrocarbons obtained 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 isobutane and boiling in the range of approximately 12° C to 16° F (54° F to 61° F).]	92045-23-3	C				
Gas oils (petroleum), thermal-cracked, hydrodesulfurized: Cracked oil	92045-26-0	C				
Lubricating oils (petroleum), C17-35, solvent-wind: Aromatized, hydrocracked: Basell – unspecific: Lubricating oils (petroleum), hydrocracked, newborn: solvent-dearomatized: Basell – unspecific:	92046-62-6	C				
Naphtha (petroleum), C4-12, naphtha-steam-cracking: 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).]	92045-49-3	C				
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 C8 through C12 and boiling in the range of approximately 60° F to 200° C (140° F to 392° F).]	92045-50-6	C				
Naphtha (petroleum), heavy steam-cracked, hydrotreated: Low boiling point hydrogens treated naphtha:	92045-51-7	C				
Naphtha (petroleum), hydrodesulfurized full-range: Low boiling point hydrogens 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 155° C (86° F to 307° F).]	92045-52-8	C				
Naphtha (petroleum), hydrodesulfurized light, deaeromatized: Low boiling point naphtha – unspecific: [A complex combination of hydrocarbons obtained by distillation of hydrodesulfurized and deaeromatized light petroleum fractions. It consists predominantly of C7 paraffins and cycloparaffins boiling in a range of approximately 70° C to 100° C (158° F to 212° F).]	92045-53-9	C				
Hydrocarbons, hydrotreated light naphtha distillates: solvent-refined: Low boiling point modified naphtha: [A combination of hydrocarbons obtained from the distillation of hydro-treated naphtha followed by a solvent extraction and distillation process. It consists predominantly of saturated hydrocarbons boiling in the range of approximately 84° C to 99° C (201° F to 210° F).]	92045-55-1	C				
Naphtha (petroleum), hydrotreated light steam-cracked: Low boiling point hydrogens 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 C8 through C11 and boiling in the range of approximately 35° C to 190° C (95° F to 374° F).]	92045-57-3	C				
Naphtha (petroleum), isomerization, C8-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 heavier isomers boiling in the range of approximately 60° C to 65° C (140° F to 151° F).]	92045-58-4	C				
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 having carbon numbers predominantly in the range of approximately 35° C to 210° C (95° F to 410° F).]	92045-59-5	C				
Naphtha (petroleum), light, C5-rich, sweetened: Low boiling point naphtha – unspecific: [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 10° C to 35° C (50° F to 95° F).]	92045-60-8	C				
Hydrocarbons, C4-12, naphtha-cracking, hydrotreated: Low boiling point hydrogens 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).]	92045-61-9	C				
Hydrocarbons, C8-11, naphtha-cracking, toluene cut: Low boiling point naphtha – unspecific: [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 100° C to 205° C (208° F to 401° F).]	92045-62-0	C				
Hydrocarbons, C4-11, naphtha-cracking, wax-free: Low boiling point naphtha – unspecific: [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 of C4 through C11 and boiling in the range of approximately 30° C to 205° C (86° F to 401° F).]	92045-63-1	C				
Hydrocarbons, C8-7, naphtha-cracking, toluene cut: 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 C8 through C7 and boiling in the range of approximately 70° C to 100° C (158° F to 212° F).]	92045-64-2	C				
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 aromatic, olefins and saturated hydrocarbons boiling in the range of approximately 20° C to 100° C (68° F to 212° F).]	92045-65-3	C				
Paraffin waxes (coal, brown-coal-high-temp, tar, Coal Tar Extract: [A complex combination of hydrocarbons obtained from light fraction carbonized tar by solvent crystallization (solvent deoiling), by sweetening or an adding 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.]	92045-67-5	R				
Paraffin waxes (coal, brown-coal-high-temp, tar, hydrotreated: Coal Tar Extract: [A complex combination of hydrocarbons obtained from light fraction carbonized tar by solvent crystallization (solvent deoiling), by sweetening or an adding 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.]	92045-71-1	C				
Paraffin waxes (coal, brown-coal-high-temp, tar, hydrotreated: Coal Tar Extract: [A complex combination of hydrocarbons obtained from light fraction carbonized tar by solvent crystallization (solvent deoiling), by sweetening or an adding 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.]	92045-72-2	C				
Petroleum (petroleum), hydrocracked: Petroleum: [A complex combination of hydrocarbons obtained as a semi-solid from deashed 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 C26.]	92045-77-7	C				
Petroleum gases, liquefied, sweetened: C4 fraction: Petroleum gas: [A complex combination of hydrocarbons obtained by subjecting a liquefied petroleum gas mix to a sweetening process to oxidize mercaptans or to remove acidic impurities. It consists predominantly of C4 saturated and unsaturated hydrocarbons.]	92045-80-2	C				
Residual oils (petroleum), hydrocracked acid-treated: solvent-deashed: Basell – unspecific: [A complex combination of hydrocarbons produced by solvent removal of paraffine from the residue of the distillation of acid-treated, hydrocracked, heavy paraffins and boiling approximately above 300° C (718° F).]	92061-68-4	C				
Residues (coal tar), anthracene of distn: Anthracene Oil 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 polycyclic aromatic and heterocyclic hydrocarbons.]	92061-82-2	C				
Residues (coal tar), creosote or distn: Wash Oil: 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 disubstituted aromatic and heterocyclic hydrocarbons.]	92061-93-3	C				
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 884° F). Composed primarily of polycyclic aromatic hydrocarbons, and heterocyclic compounds.]	92061-94-4	C				
Residues (petroleum), catalytic cracking: Heavy Fuel Oil: [A complex combination of hydrocarbons obtained from 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).]	92061-97-7	C				
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 300° C (392° F to 572° F).]	92062-00-5	C				
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 cracked 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 18cSt at 50° C.]	92062-04-9	C				
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 C26.]	92062-09-4	C				
Slack wax (petroleum), low-melting: 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.]	92062-10-7	C				
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.]	92062-11-8	C				
Solvent naphtha (petroleum), hydrotreated light naphthenic: Low boiling point hydrogens 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 paraffinic hydrocarbons having carbon numbers predominantly in the range of C8 through C7 and boiling in the range of approximately 73° C to 85° C (163° F to 185° F).]	92062-15-2	C				
Tar, coal, high-temp, distn and storage residues: Coal Tar Solids: Residue: [Color- 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.]	92062-20-9	C				
Tar acids, brown-coal gasification: Crude Phenols: [A complex combination of organic compounds obtained from brown coal gasification. Composed primarily of C6-10 hydroxy aromatic phenols and their homologs.]	92062-22-1	C				

38/45

39/45

40/45

Substance	CAS-No.	C	P/T	D/T	Example of use / Exemptions	Effective Date
Chlorinated Paraffins, Short & Medium Chain Length (SCCP, MCPs), all members. Note that the use of specific CAS numbers for these substances differs throughout the world. Example CAS numbers are provided below; however, other CAS numbers may be used that are not specific to chain length. Therefore, please consult your MSDS and supplier to determine product-specific chain length.	JAMP- SN0018	C				
Methyl-phenylene diamine, diaminodibenzene, [bisubstituted product - mixture of 4-methyl-2-phenylene diamine (EC No 202-453-1) and 2-methyl-2-phenylene diamine (EC No 212-513-0)]	JAMP- SN0020	C				
Mixture of dimethyl (2-(hydroxymethyl)carbamoyl)ethylphosphonate, diethyl (2-(hydroxymethyl)carbamoyl)ethylphosphonate, methyl ethyl (2-(hydroxymethyl)carbamoyl)ethylphosphonate	JAMP- SN0026	C				
O-dianiline based dyes, 4,4'-diaryloxy-3,3'-dimethoxydianilines with the exception of those mentioned elsewhere in this Annex	JAMP- SN0030	C				
O-toluidine based dyes, 4,4'-diaryloxy-3,3'-dimethylphenyl dyes, with the exception of those mentioned elsewhere in this Annex	JAMP- SN0033	C				
Perfluorinated sulfonates (PFOS) CAS 17502X (X = OH, Me) and its salts, isomers, and other derivatives including polymers	JAMP- SN0035	P				
(Chloro)aromatic compounds except Dibutyltin (DBT) compounds, Dioctyltin (DOT) compound and Tri-substituted organotin/aromatic compounds	JAMP- SN0039	C				
4,1,1,3-tetraaryldibutylphenol, ethoxylated - covers well-defined substances and UVCB substances, polymers and homologues	JAMP- SN0081	C				
4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers and combinations thereof	JAMP- SN0082	C				
Aluminosilicate Refractory Ceramic Fibres	JAMP- SN0091	C				
Arsenic acid and its salts with the exception of those specified elsewhere in this Annex	JAMP- SN0093	C				
Arsenic and its inorganic compounds	JAMP- SN0095	C				
Acetoacrylates and Acrylates	JAMP- SN0111	C				
Beryllium and its compounds	JAMP- SN0114	C				
Brominated flame retardants(BFRs) not restricted of their inclusion by regulations (groups)	JAMP- SN0115	C				
Cadmium and its compounds	JAMP- SN0116	R				
Chlorinated or brominated Dibenz-p-dioxins or dibenzofurans, all members	JAMP- SN0117	C				
Hexavalent chromium compounds	JAMP- SN0118	R				
Cobalt lithium nickel oxide	JAMP- SN0120	C				
Hydrazine bis(3-carboxy-4-hydroxybenzenesulfonate)	JAMP- SN0121	C				
Hydrazine-trinitroethane	JAMP- SN0122	C				
Lead and its compounds	JAMP- SN0123	R				
Mercury and its compounds	JAMP- SN0124	R				
Nickel compounds	JAMP- SN0125	C				
Nitriles, all members	JAMP- SN0126	C				
N-pentyl-isopentylphthalate	JAMP- SN0127	C				
O-heptyl-N-ethoxycarbonylthiocarbamate	JAMP- SN0128	C				
Organic tin compounds	JAMP- SN0129	C				
Perchlorates, all members	JAMP- SN0130	C				
PFOA and its salts, Perfluorooctanoic acids C8F15O2X (X = H, NH4, and Metal salts), all members	JAMP- SN0131	C				
Polychlorinated Biphenyls (PCBs), all members	JAMP- SN0132	C				
Radioactive substances (including scrap metal contaminants), all members	JAMP- SN0133	C				
Salts and esters of dicarboxylic acids, with the exception of those specified elsewhere in this Annex	JAMP- SN0134	C				
Salts and esters of dicarboxylic acids, with the exception of those specified elsewhere in this Annex	JAMP- SN0135	C				
Salts of 2,2'-di(4-bromo-4,4'-methylenebis(4-chlorophenyl))	JAMP- SN0136	C				
Salts from 3,3'-Dimethoxybenzidine	JAMP- SN0137	P				
Salts of 4-Aminobiphenyl(arylamines) [aromatic]	JAMP- SN0138	C				
4-Nitrobiphenyl and its salts	JAMP- SN0139	P				
Avulins and its salts, all members	JAMP- SN0140	C				
Salts of biphenyl-4-ylamine, salts of aniline, salts of 4-aminobiphenyl	JAMP- SN0141	P				
Salts of hydrazine	JAMP- SN0142	C				
Phenylamines and its salts, all members	JAMP- SN0143	C				
Trichlorophenol and its salts, all members	JAMP- SN0144	C				
Salts or derivatives of benzidine [aromatic]	JAMP- SN0145	C				
Perchlorophenol (PCOP) and its salts, all members	JAMP- SN0146	C				
Selenium and its compounds, all members	JAMP- SN0147	C				
Zirconia Aluminosilicate Refractory Ceramic Fibres	JAMP- SN0148	C				
Chloro-fluoro-carbons (CFC) and other ozone depleting substances, all members	JAMP- SN0149	P				
Halogens, all members	JAMP- SN0150	C				
Hydrobromofluorocarbons (HFCs), all members	JAMP- SN0151	C				
HFCs	JAMP- SN0152	R				
Hydrofluorocarbons (HFCs), all members	JAMP- SN0153	C				
Mineral fibres (Natural or Synthetic) except Continuous Filament Fibres, all members	JAMP- SN0154	C				
Nonylphenol ethoxylates (C12H25OxC12H44O)	JAMP- SN0155	C				
Polychlorobiphenyls (PCBs)	JAMP- SN0156	R				
Polychloro diphenyl ethers (PCDEs)	JAMP- SN0157	R				
Thallium and its compounds, all members	JAMP- SN0158	C				
Thiorganotin compounds all members	JAMP- SN0159	C				
2-chloro-2-methyl-thiazol-3-one	JAMP- SN0160	C				
2-methylthiazol-3-one	JAMP- SN0161	C				
Oligomers of chromic acid and dichromic acid.	JAMP- SN0162	C				
Dibutyltin compounds [aromatic]	JAMP- SN0163	R				
Dioctyltin compounds [aromatic]	JAMP- SN0164	C				
Salts from 2,2'-Dichloro-4,4'-methylenebis(4-chlorophenyl)	JAMP- SN0165	C				
Sodium perborate, containing < 0.1 % (w/w) of particles with an aerodynamic diameter of below 50 micron	JAMP- SN0166	C				
Adhesives (thermosetting)	JAMP- SN0167	P				
Adhesives (thermosetting)	JAMP- SN0168	P				
Refractory Ceramic Fibres, Special Purpose Fibres (Man-made vitreous fibres) with random orientation with alkaline oxide and alkali earth oxide (Na2O+20x-CaO-MgO+BaO) content less or equal to 18 % by weight	JAMP- SN0169	C				
Reaction mass of Ca oxalates (branched C10-14 and C18-20 alkylated), Ca phenolates (branched C10-14 and C18-20 alkylated), Ca sulfonates (branched C10-14 and C18-20 alkylated)	JAMP- SN0170	C				
Mineral wool, with the exception of those specified elsewhere in this Annex (Man-made vitreous fibres) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+20x-CaO-MgO+BaO) content greater than 18 % by weight	JAMP- SN0171	C				
4-Nonylphenol, branched and linear, ethoxylated (Substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof)	JAMP- SN0172	C				
Silicones	Manufacturer	D / P			Bosch 2012: limit value valid only for business division Drive and Control Technology (Bosch Rexroth AG and others); 0.1 wt% in coating materials for the broader, class 9 classification "1"	
Refractory Ceramic Fibres	N.A.	P	0.1%		Volvo 2014: Insulation materials. Application: The prohibition refers to RFC fibres extracted from index number 650-017-00-8 fulfilling the criteria set forth in the REACH Candidate List. High-temperature insulation applications are exempted from this prohibition.	15.03.2011
UVCB compounds	Several	P			Scania 2014: Cooling agent, "Tegon"	24.02.1998
Tri-substituted organotin/aromatic compounds such as tributyltin (TBT) and triphenyltin (TPP)	Several	P			Scania 2014: Cooling agent, "Tegon"	24.02.1998
Highly ether carbonates, derivative	Stoffgruppe / material group	P			Bosch 2012: Prohibition as pure substance and 0.1% in mixtures, flame retardants	23.05.2010
Alcohol ether carbonates, derivative	Stoffgruppe / material group	P			Flame retardant	
Arsenic and its compounds, all members	various	P	0.1%		Scania 2014: Wood preservative, Drying agent, (Volvo 2014: Paint, biocide (including wood treatment), leather and textile finish, glass, pyrotechnic objects, metal finish, electronics	Scania 2014: 26.02.1998 / Volvo 2014: 15.03.2014
Acetoacrylates	various	P	0.1%		Scania 2014: Textile, Leather Application: According to EU directive 2002/61/EC: Are applicable for acetoacrylates that can separate into carcinogenic aromatic amines, Volvo 2014: Colorants or additives in textiles and leather	Scania 2014: 17.10.2007 / Before 01.02.2008
Biocides	various	P	0.010%		Volvo 2014: Biocides in paints, lubricants, cooling fluids and metal-working fluids	15.03.2013
Biocides	various	P	0.1%		Volvo 2014: Biocides in paints, lubricants and metal-working fluids	Before 01.02.2008
Aluminum compounds, selected	various	P	0.1%		Volvo 2014: Metal working fluids	15.03.2011
Chlorinated Paraffins, linear	various	P	0.1%		Scania 2014: Oil, Fire retardants, Volvo 2014: Additives in process oils, metal working fluids, adhesives and sealants	Scania 2014: 24.02.1998 / Volvo 2014: Before 01.02.2008
Coal tar	various	P	0.1%		Volvo 2014: Disinfectant products, films	15.03.2014 - Classified before 01.02.2008
Diorganotin compounds	various	P	0.1%		Volvo 2014: Stabilizers, catalysts, curing agents and antifouling biocides. Application: For use as antifouling biocides Volvo's biocides applies (STD 100-0002). For other use Volvo's grey list applies (STD 100-0003)	15.03.2013 - Additional substances 15.03.2014
Diorganotin compounds (e.g. mono- and dialkyl compounds)	various	DIP	0.001	0.001	Volvo 2014: Stabilizers, catalysts, curing agents and antifouling biocides. Application: For use as antifouling agent Volvo's biocides applies (STD 100-0002) For other use Volvo's grey list applies (STD 100-0003); (Ford 2013): "D" all products, water treatment	Volvo 2013: 15.03.2013, 15.03.2014, 15.03.2013, 15.03.2011
Ethyl, Methyl-Glycols or their Acetates	various	P	0.1%		Volvo 2014: Solvents and thinning agents	Before 01.02.2008
Lead and lead compounds	various	PID	0.1%		Volvo 2015: Lead-containing substances and pigments, corrosion inhibitors; Scania 2014: Application: All electric and electronic products containing more than 0.1 g lead assembly part must be labelled according to Scania STD3671.	Before 01.02.2008 / Scania 2014: 26.02.1998 / Ford 2013: Immediate (refer to 64.1 subcategories for prohibited categories, and 64.2 for degradable categories)
Lead as an alloy element	various	D			Scania 2014: Alloy	15.03.2014
Metal compounds, selected	various	D	0.1%		Volvo 2014: Surface treatment and phosphating	15.03.2011
Nonyl and octylphenols	various	P	0.1%		Volvo 2014: Surface-active agents	Before 01.02.2008
Perfluorinated sulfonates	various	P	0.1%		Volvo 2015: Surface coatings, paints, firefighting foam	15.03.2015
Perfluorinated acids	various	P	0.1%		Volvo 2015: Surface coatings, paints, firefighting foam	15.03.2015
Polychlorinated aromatic hydrocarbons (PAHs, PCBs)	various	P	0.1%		Volvo 2015: Lubricant oil in tires	15.03.2014 - Classified before 01.02.2008
Quaternary ammonium compounds	various	P	0.1%		Volvo 2015: Coatings, adhesives, solvents, colorants	15.03.2014 - Classified before 01.02.2008
Capacitors and capacitors, selected	various	P	1.00%		Volvo 2014: Solvents, adhesives, solvents, colorants	15.03.2014
Chloro-diphenyltin (TDI)	various	P	0.1%		Volvo 2014: PU foam, hardeners	Before 01.02.2008
Amines, carboxylic	various	P	0.20%		Volvo 2014: Curative agents in paints and adhesives, anti-oxidants in lubricants	Before 01.02.2008
Amines, which can form carcinogenic nitrosamines	various	D	0.05%		Volvo 2015: The grey list only applies when amines are used together with nitrosating agents, e.g. in corrosion inhibitors or metal working fluids. Volvo 2014: Corrosion inhibitors, lubricants, metal-working fluids. Application: May form carcinogenic N-nitroso-amines together with nitrosating agents. Restrictions only for metal-working fluids and corrosion inhibitors. German recommendations TRGS 611 and TRGS 615; GADG 2012: polystyrene foams, skin inhibitors, lubricants, rubber, colorants, herbicides; / Volvo 2012: corrosion inhibitors, lubricants, metal working fluids. May form carcinogenic N-nitrosamines together with nitrosating agents. Restrictions only for metal-working fluids and corrosion inhibitors according to German recommendations TRGS 611 and TRGS 615; /	Before 01.02.2008
Adhesives (thermosetting)	various	P	0.1%		Volvo 2014: Insulation	Before 01.02.2008
Biocides, others (e.g. w/v, methyl, benzothiazolone (sum))	various	P	0.1%		Volvo 2012: Insulation	15.03.2012
Biocides, others (e.g. w/v, methyl, benzothiazolone (sum))	various	D	0.05%	0.05%	Volvo 2012: Biocides in paints, lubricants and metal-working fluids; / in water miscible anti-corrosion agents, water miscible cooling lubricants and emulsion cleaners	Before 01.02.2008
Basic compounds, selected	various	D			verschrieben & varous	
Chlorinated hydrocarbons	various	D	0.001	0.001	Volvo 2012 (P) solvents and dispersive applications, (D) solvents, degreasing agents and paint removers; Halogenated aliphatic hydrocarbons, Chlorinated paraffins Only trichloroethane, perchloroethane and dichloromethane are permitted as solvents for surface cleaning	Before 01.02.2008
Chlorinated or brominated Dioxins or Furans	various	P	10 ppm	10 ppm	Volvo 2014: Impurities in products, Volvo 2012: Impurities in products; / all Products	15.03.2010

42/45



Substance	CAS-No.	C	P/T	D/T	Example of use / Exemptions	Effective Date
Medium chained chloro paraffins (C14 - C17) (MCCP)		D	0,20%	0,10%	(Ford, 2010): all products	
Mercury (anti-fouling paints - components)		D				
Methylcyclopentadienyl manganese tricarbonyl (MMT)		P	6 mg of Manganese per liter		(Ford 2013): Fuel in EU	Immediate
Methylcyclopentadienyl manganese tricarbonyl (MMT)		P	2 mg of Manganese per liter		(Ford 2013): Fuel in EU	01.01.2014
Substituted chloroethylenes (Isolux® 30)		D		0% (a)	(Ford 2013): All Products	Immediate
Mineral fibers (natural or synthetic) (Ford: except Continuous Filament Fibers)		D	0,10%	0,10%	If respirable fiber dusts may be released when handling the substance (natural and artificial fibers (e.g. glass fibers, ceramic fibers) (Ford, 2010: (7)) Observe the WHO fiber criteria, (3.9.08) Ford: all products	
Misc. Aromatic amines and their salts (vii)		D		0,01%	(Ford 2013): All Products	Immediate
Monomethyldichlorodihydrovinylmethane (Isolux 121)		P			replaces PCB	
Monomers substances		D	0,10%	0,10%	(Ford 2013): All Products: all products	Immediate
NPVC ether		P		0% (i)	(Ford 2013): All non-Dimensional Products, (Ford, 2010): all non-dimensional products	Immediate
Unfilled separator substances		P				

44/45

45/45