

Restricted and declarable substance list
Mandatory requirement for suppliers of
Lufthansa Technik Group and Deutsche Lufthansa AG

1. Overview – General Information

The supplier must assure **compliance with all applicable chemical regulations** regarding e.g. but not limited to classification, labelling and packaging, import and use restrictions, substance bans, information or notification requirements.

Under the scope of REACH, the supplier must ensure that

- all ingredients are registered/ will be **registered** under the statutory provisions of this legislation. If this cannot be guaranteed, immediate information has to be provided to Lufthansa Technik Group/ Deutsche Lufthansa AG
- an immediate notification has to be sent to Lufthansa Technik Group/ Deutsche Lufthansa AG when substances/ products will be phased out or an authorization for the use of these will be required in the future.

The supplier of materials (chemicals, mixtures and articles) must provide **CLP compliant Material Safety Data Sheets***, must disclose the **VOC quantity**** (mass per volume), and must ensure that no volatile substances with carcinogenic, mutagenic, reproductive toxic properties are part of the composition.

* Classification, Labelling, Packaging of Chemicals of substances and mixtures: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**VOC Solvent Emission Directive: Council Directive 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations

2. Specific, External Supplier Requirements

The Annex RDSL is listing substances that are highly regulated. Suppliers must **fulfill the External Supplier Requirements (mentioned in the last column)** when providing chemicals, mixtures and articles containing these substances to Lufthansa Technik Group/ Deutsche Lufthansa AG. In case that the supplier's delivery would include a substance listed in the Annex RDSL contact the E,H&S department **via the following email address: chemicalsafety@lht.dlh.de** and provide the requested information (External Supplier Requirement).

- Substances on REACH Annex XVII
- Substances on REACH Annex XIV
- Substances on REACH Candidate List
- Substances regulated by RoHS
- Biocidal Active Substances
- Ozone Depleting Substances
- Fluorinated Greenhouse Gases
- Persistent Organic Pollutants (POPs)
- Radioactive Substances
- Conflict Minerals
- Carcinogenic, Mutagenic & Toxic for Reproduction (CMR) Substances
- LHT Group specific Restrictions

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Nevertheless, Lufthansa Technik Group/ Deutsche Lufthansa AG – regarding its corporate social responsibility – still **reserves the right to resign** the usage of materials which contain substances listed in the Annex RDSL, following prior mandatory assessment of feasible technical alternatives and a socio-economic impact analysis.

Note: The substances listed in the Annex RDSL will be reviewed and updated once per year. You are legally obliged to check any appropriate chemical regulation for the actual and complete list of restricted or banned substances or uses.

3. Contacts

Please send all information regarding your products as well as remarks and feedback to this document **via the following email address:** chemicalsafety@lht.dlh.de

For further information:

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1. Substances on REACH Annex XVII - Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)		
Explanation: Annex XVII substances are subject to restrictions adopted in the framework of REACH and the previous legislation, Directive 76/769/EEC; *SCIP Notification according to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives		
Link to Website	Internal Requirement	External Requirement
https://echa.europa.eu/de/substances-restricted-under-reach	-Compliance with user requirements	-When contained in articles: Art. 33 Notification if >0,1 mass percentage and SCIP Notification Number*

2. Substances on REACH Annex XIV - Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)		
Explanation: The use of Annex XIV substances (as such or in mixtures) after the Sunset Date is subject to authorization by EU COM; *SCIP Notification according to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives		
Link to Website	Internal Requirement	External Requirement
https://echa.europa.eu/de/authorisation-list	-Compliance with authorization requirements (consult with T/TQU before first use)	-When contained in articles: Art. 33 Notification if >0,1 mass percentage and SCIP Notification Number* -When contained in mixtures: delivery of latest MSDS containing Authorization Number and Safe Use Instructions

3. Substances on REACH Candidate List - Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)		
Explanation: Candidate List substances are chemical substances of very high concern (SVHC) for human health and the environment. A substance is considered to be of very high concern if it meets one or more of the criteria of Article 57 of the REACH Regulation. These criteria include: CMR Cat. 1&2, PBT, vPvB, or similar properties of concern that cause serious and irreversible effects on humans and the environment; *SCIP Notification according to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives		
Link to Website	Internal Requirement	External Requirement
https://echa.europa.eu/de/candidate-list-table	n/a	-When contained in articles: Art. 33 Notification if >0,1 mass percentage and SCIP Notification Number*

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4. Substances regulated by RoHS - <i>Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast)</i>				
Explanation: Regulation/Restriction of the use and placing on the market of certain hazardous substances in electrical and electronic equipment; Maximum concentration 0,1% (except Cadmium: 0,01%)				
CAS Number	EC Number	Name	Internal Requirement	External Requirement
7439-92-1	231-100-4	Lead	n/a	-RoHS Declaration for Substances included in electronic compounds
7439-97-6	231-106-7	Mercury		
7440-43-9	231-152-8	Cadmium		
		Cr6-Compounds		
		Polybrominated biphenyls (PBB)		
		Polybrominated diphenyl ethers (PBDE)		
		Bis(2-ethylhexyl) phthalate (DEHP)		
		Butyl benzyl phthalate (BBP)		
		Dibutyl phthalate (DBP)		
		Diisobutyl phthalate (DIBP)		

5. Biocidal Active Substances - <i>Biocidal Products Regulation ((EU) No 528/2012 (BPR)</i>		
Explanation: Biocidal products must be authorised before they can be made available on the market or used in the European Economic Area (EEA) and Switzerland. The data on this page is active substance/product-type centric.		
Link to Website	Internal Requirement	External Supplier Requirement
https://echa.europa.eu/de/information-on-chemicals/biocidal-active-substances	n/a	-When contained in mixtures : Confirmation of Product Registration

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6. Ozone Depleting Substances - Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer

Explanation: Rules (& reporting requirements) on the production, import, export, placing on the market, use, recovery, recycling, reclamation and destruction of substances that deplete the ozone layer/ products and equipment containing these substances.

CAS Number	EC Number	Name	Internal Requirement	External Requirement
75-71-8	200-893-9	Dichlorodifluoromethane	-Ensure compliance with import/export restrictions (e.g. licenses for halon-containing fire extinguishers) -Annual reporting	-When contained in equipment : delivery of technical documentation listing the substance & quantity
76-13-1	200-936-1	Trichlorotrifluoroethane		
76-14-2	200-937-7	1,2-Dichloro-1,1,2,2-tetrafluoroethane		
1320-37-2	215-300-9	Dichlorotetrafluoroethane, isomers		
76-15-3	200-938-2	Chloropentafluoroethane		
75-72-9	200-894-4	Chlorotrifluoromethane		
75-72-9	200-894-4	Pentachlorofluoroethane		
200-935-6	76-12-0	Tetrachloro-1,2-difluoroethane		
200-934-0	76-11-9	Tetrachloro-2,2-difluoroethane		
249-101-3	28605-74-5	Tetrachlorodifluoroethane, isomers		
		Heptachlorofluoropropane		
		Hexachlorodifluoropropane		
		Pentachlorotrifluoropropane		
		Tetrachlorotetrafluoropropane		
		Trichloropentafluoropropane		
		Dichlorohexafluoropropane		
		Chloroheptafluoropropane		
353-59-3	206-537-9	Bromochlorodifluoromethane (Halon 1211)		

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CAS Number	EC Number	Name	Internal Requirement	External Requirement
75-63-8	200-887-6	Bromotrifluoromethane (Halon 1301)	-Ensure compliance with import/export restrictions (e.g. licenses for halon-containing fire extinguishers) -Annual reporting	-When contained in equipment : delivery of technical documentation listing the substance & quantity
124-73-2	204-711-9	1,2-Dibromotetrafluoroethane (Halon 2402)		
56-23-5	200-262-8	Tetrachloromethane (carbon tetrachloride)		
71-55-6	200-756-3	1,1,1-Trichloroethane (methylchloroform)		
74-83-9	200-813-2	Bromomethane		
		Dibromofluoromethane		
		Bromodifluoromethane		
		Bromofluoromethane		
		Tetrabromofluoroethane		
		Tribromodifluoroethane		
		Dibromotrifluoroethane		
		Bromotetrafluoroethane		
		Tribromofluoroethane		
		Dibromodifluoroethane		
		Bromotrifluoroethane		
		Dibromofluoroethane		
		Bromodifluoroethane		
762-49-2	212-100-3	Bromofluoroethane		

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CAS Number	EC Number	Name	Internal Requirement	External Requirement
		Hexabromofluoropropane	-Ensure compliance with import/export restrictions (e.g. licenses for halon-containing fire extinguishers) -Annual reporting	-When contained in equipment : delivery of technical documentation listing the substance & quantity
		Pentabromodifluoropropane		
		Tetrabromotrifluoropropane		
		Tribromotetrafluoropropane		
		Dibromopentafluoropropane		
		Bromohexafluoropropane		
		Pentabromofluoropropane		
		Tetrabromodifluoropropane		
		Tribromotrifluoropropane		
		Dibromotetrafluoropropane		
		Bromopentafluoropropane		
		Tetrabromofluoropropane		
		Tribromodifluoropropane		
		Dibromotrifluoropropane		
		Bromotetrafluoropropane		
		Tribromofluoropropane		
		Dibromodifluoropropane		
		Bromotrifluoropropane		
		Dibromofluoropropane		

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CAS Number	EC Number	Name	Internal Requirement	External Requirement
		Bromodifluoropropane	-Ensure compliance with import/export restrictions (e.g. licenses for halon-containing fire extinguishers) -Annual reporting	-When contained in equipment : delivery of technical documentation listing the substance & quantity
		Bromofluoropropane		
75-43-4	200-869-8	Dichlorofluoromethane		
75-45-6	75-45-6	Chlorodifluoromethane		
593-70-4	209-803-2	Chlorofluoromethane		
		Tetrachlorofluoroethane		
		Trichlorodifluoroethane		
		Dichlorotrifluoroethane		
		Chlorotetrafluoroethane		
		Trichlorofluoroethane		
		Dichlorodifluoroethane		
		Chlorotrifluoroethane		
		Dichlorofluoroethane		
1717-00-6	404-080-1	1,1-Dichloro-1-fluoroethane		
		Chlorodifluoroethane		
1717-00-6	404-080-1	1-Chloro-1,1-difluoroethane		
		Chlorofluoroethane		
		Hexachlorofluoropropane		
		Pentachlorodifluoropropane		

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CAS Number	EC Number	Name	Internal Requirement	External Requirement
		Tetrachlorotrifluoropropane	-Ensure compliance with import/export restrictions (e.g. licenses for halon-containing fire extinguishers) -Annual reporting	-When contained in equipment : delivery of technical documentation listing the substance & quantity
		Trichlorotetrafluoropropane		
		Dichloropentafluoropropane		
		3,3-Dichloro-1,1,1,2,2-pentafluoropropane		
507-55-1	208-076-9	1,3-Dichloro-1,1,2,2,3-pentafluoropropane		
		Chlorohexafluoropropane		
		Pentachlorofluoropropane		
		Tetrachlorodifluoropropane		
		Trichlorotrifluoropropane		
		Dichlorotetrafluoropropane		
		Chloropentafluoropropane		
		Tetrachlorofluoropropane		
		Trichlorodifluoropropane		
		Dichlorotrifluoropropane		
		Chlorotetrafluoropropane		
		Trichlorofluoropropane		
		Dichlorodifluoropropane		
		Chlorotrifluoropropane		
		Dichlorofluoropropane		

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CAS Number	EC Number	Name	Internal Requirement	External Requirement
		Chlorodifluoropropane	-Ensure compliance with import/export restrictions (e.g. licenses for halon-containing fire extinguishers) -Annual reporting	-When contained in equipment : delivery of technical documentation listing the substance & quantity
		Chlorofluoropropane		
74-97-5	200-826-3	Chlorobromomethane (Bromochloromethane)		
75-61-6	200-885-5	Dibromodifluoromethane (Halon-1202)		
106-94-5	203-445-0	1-Bromopropane (n-propyl bromide)		
74-96-4	200-825-8	Bromoethane (ethyl bromide)		
2314-97-8	219-014-5	Trifluoroiodomethane (trifluoromethyl iodide)		
74-87-3	200-817-4	Chloromethane (methyl chloride)		

7. Fluorinated Greenhouse Gases - Regulation (EU) No 517/2014 of the European Parliament and of the Council on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Explanation: Rules/conditions on the production, import, export, placing on the market, containment, use, recovery and destruction of fluorinated greenhouse gases / products and equipment containing these substances.

CAS Number	EC Number	Name	Internal Requirement	External Requirement
75-46-7	200-872-4	Trifluoromethane (fluoroform)	-Ensure compliance with import/export restrictions (e.g. quota) -Adhere to specific maintenance requirements for precharged equipment (e.g. cooling- & AC equipment)	-When contained in equipment : delivery of technical documentation listing the substance & quantity
75-10-5	200-839-4	Difluoromethane		
593-53-3	209-796-6	Fluoromethane (methy fluoride)		
354-33-6	206-557-8	Pentafluoroethane		
		1,1,2,2-Tetrafluoroethane		

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Explanation: Rules/conditions on the production, import, export, placing on the market, containment, use, recovery and destruction of fluorinated greenhouse gases / products and equipment containing these substances.				
CAS Number	EC Number	Name	Internal Requirement	External Requirement
811-97-2	212-377-0	1,1,1,2-Tetrafluoroethane	-Ensure compliance with import/export restrictions (e.g. quota) -Adhere to specific maintenance requirements for precharged equipment (e.g. cooling- & AC equipment)	-When contained in equipment : delivery of technical documentation listing the substance & quantity
		1,1,2-Trifluoroethane		
420-46-2	206-996-5	1,1,1-Trifluoroethane		
		1,2-Difluoroethane		
75-37-6	200-866-1	1,1-Difluoroethane		
353-36-6	206-531-6	Fluoroethane (ethyl fluoride)		
431-89-0	207-079-2	1,1,1,2,3,3,3-Heptafluoropropane		
		1,1,1,2,2,3-Hexafluoropropane		
		1,1,1,2,3,3-Hexafluoropropane		
		1,1,1,3,3,3-Hexafluoropropane		
		1,1,2,2,3-Pentafluoropropane		
460-73-1	419-170-6	1,1,1,3,3-Pentafluoropropane		
406-58-6	430-250-1	1,1,1,3,3-Pentafluorobutane		
		1,1,1,2,2,3,4,5,5,5-Decafluoropentane		
75-73-0	200-896-5	Tetrafluoromethane (perfluoromethane, carbon tetrafluoride)		
76-16-4	200-939-8	Hexafluoroethane (perfluoroethane)		
76-19-7	200-941-9	Octafluoropropane (perfluoropropane)		

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Explanation: Rules/conditions on the production, import, export, placing on the market, containment, use, recovery and destruction of fluorinated greenhouse gases / products and equipment containing these substances.				
CAS Number	EC Number	Name	Internal Requirement	External Requirement
		Decafluorobutane (perfluorobutane)	-Ensure compliance with import/export restrictions (e.g. quota) -Adhere to specific maintenance requirements for precharged equipment (e.g. cooling- & AC equipment)	-When contained in equipment : delivery of technical documentation listing the substance & quantity
		Dodecafluoropentane (perfluoropentane)		
		Tetradecafluorohexane (perfluorohexane)		
115-25-3	204-075-2	Octafluorocyclobutane (Perfluorocyclobutane)		
2551-62-4	219-854-2	Sulphur hexafluoride		
		HFC-1234yf		
		HFC-1234ze		
		HFC-1336mzz		
		HCFC-1233zd		
		HCFC-1233xf		
		HFE-125		
		HFE-134 (HG-00)		
		HFE-143a		
		HCFE-235da2 (isofluorane)		
		HFE-245cb2		
		HFE-245fa2		
		HFE-254cb2		
		HFE-347 mcc3 (HFE-7000)		

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Explanation: Rules/conditions on the production, import, export, placing on the market, containment, use, recovery and destruction of fluorinated greenhouse gases / products and equipment containing these substances.				
CAS Number	EC Number	Name	Internal Requirement	External Requirement
		HFE-347pcf2	-Ensure compliance with import/export restrictions (e.g. quota) -Adhere to specific maintenance requirements for precharged equipment (e.g. cooling- & AC equipment)	-When contained in equipment : delivery of technical documentation listing the substance & quantity
		HFE-356pcc3		
		HFE-569sf2 (HFE-7200)		
		HFE-43-10pccc124 (H-Galden 1040x) HG-11		
		HFE-236ca12 (HG-10)		
		HFE-449sl (HFE-7100)		
		HFE-338pcc13 (HG-01)		
		HFE-347mmy1		
		2,2,3,3,3-Pentafluoropropanol		
		Bis(trifluoromethyl)-Methanol		
		HFE-227ea		
		HFE-236ea2 (Desfluoran)		
		HFE-236fa		
		HFE-245fa1		
		HFE 263fb2		
		HFE-329 mcc2		
		HFE-338 mcf2		
		HFE-338mmz1		
		HFE-347 mcf2		

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Explanation: Rules/conditions on the production, import, export, placing on the market, containment, use, recovery and destruction of fluorinated greenhouse gases / products and equipment containing these substances.				
CAS Number	EC Number	Name	Internal Requirement	External Requirement
		HFE-356 mec3	-Ensure compliance with import/export restrictions (e.g. quota) -Adhere to specific maintenance requirements for precharged equipment (e.g. cooling- & AC equipment)	-When contained in equipment : delivery of technical documentation listing the substance & quantity
		HFE-356mm1		
		HFE-356pcf2		
		HFE-356pcf3		
		HFE 365 mcf3		
		HFE-374pc2		
		- (CF 2) 4 CH (OH)-		
		Perfluorpolymethyl-isopropylether (PFPMIE)		
		Stickstofftrifluorid		
		Trifluormethylschwefel-pentafluorid		
		Perfluorcyclopropan		

8. Persistent Organic Pollutants (POPs) - Regulation (EU) 2019/1021 of the European Parliament and of the Council on persistent organic pollutants		
Explanation: Ban or severe restriction on the production, placing on the market and use of POPs; The data on this page contains all substances currently listed in the relevant annexes to the POPs Regulation.		
Link to Website	Internal Requirement	External Requirement
https://echa.europa.eu/de/list-of-substances-subject-to-pops-regulation	n/a	-Declaration of substance & quantity

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9. Radioactive Substance - Regulation on the protection against the dangers arising from exposure to ionising radiation (Strahlenschutzverordnung - StrlSchV) (This regulation serves to implement the COUNCIL DIRECTIVE 2013/59/EURATOM of 5 December 2013 laying down basic safety standards for protection against the dangers arising from exposure to ionising radiation, and repealing Directives 89/618/Euratom, 90/641/Euratom, 96/29/Euratom, 97/43/Euratom and 2003/122/Euratom)		
Explanation: Safety standards for the protection of the health of individuals subject to occupational, medical and public exposures against the dangers arising from ionising radiation.		
Substances	Internal Requirement	External Supplier Requirement
All radioactive substances	-Reporting & inventory requirements	-Declaration of all of radioactive substances (substance, quantity, radiation intensity)

10. Conflict Minerals - Dodd - Frank Wall Street Reform and Consumer Protection Act ("Dodd-Frank-Act")				
Explanation: Supplier must ensure that delivered materials (chemicals, mixtures and articles) containing tin, tantalum, tungsten and gold do comply with the requirements of the Dodd-Frank Wall Street Reform and Consumer Protection Act ("Dodd-Frank-Act"), Section 1502, in regard to conflict minerals.				
CAS Number	EC Number	Name	Internal Requirement	External Supplier Requirement
7440-31-5	231-141-8	Tin	-Conflict Minerals Reporting	-Report showing that all items delivered comply with the requirements of the Dodd-Frank Wall Street Reform and Consumer Protection Act ("Dodd-Frank-Act"), Section 1502 in regard to conflict minerals
7440-25-7	231-135-5	Tantalum		
7440-33-7	231-143-9	Tungsten		
7440-57-5	231-165-9	Gold		

11. CMR - Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006		
Explanation: Part 3 of Annex VI lists hazardous substances for which harmonised classification and labelling have been established at Community level, and which are determined to be CMR according to Annex VI of Regulation 1272/2008.		
Tab "CMR Substances"	Internal Requirement	External Supplier Requirement
please check the Annex "CMR Substances" for full substance disclosure	-Search for Alternatives/ Justification in case of lacking alternatives -Inventory requirements	-Declaration of substance & quantity

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12. LHT Group specific Restriction				
Explanation: LHT Group specific policies				
CAS Number	EC Number	Name	Internal Requirement	External Supplier Requirement
75-09-2	200-838-9	Methylenechloride (Chlorinated hydrocarbon)	-Use is prohibited at LHT Group	-Declaration of substance & quantity
56-23-5	200-262-8	Carbon tetrachloride (Chlorinated hydrocarbon)		
79-01-6	201-167-4	Trichloroethylene (Chlorinated hydrocarbon)		
71-55-6	200-756-3	1,1,1-Trichloroethane (Chlorinated hydrocarbon)		
		APEO or AP or APO	- Not allowed in products that may enter a chemical/physical wastewater treatment plant	
		Ethoxylated alkylphenol		
		nonyl / octylphenoethoxylate (nonionic surfactant)		
		EDTA (Ethylene diamine tetraacetic acid)		
		EDTA-Salt (chelating agent)		
		NTA (Nitriloacetic Acid, chelating agent)		
		PCB (Polychlorinated Biphenyls)		
		Quaternary ammonium cation		
		Citric Acid		

Restricted and declarable substance list
Mandatory requirement for suppliers of
Lufthansa Technik Group and Deutsche Lufthansa AG

ANNEX

-CMR Substances-

Ref.: 11. **CMR** - Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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CAS Number	EC Number	Name
10028-18-9	233-071-3	nickel difluoride
100-44-7	202-853-6	a-chlorotoluene
100-63-0	202-873-5	Phenylhydrazine
100684-33-1	309-706-6	Petrolatum (petroleum), clay-treated
100784-20-1	600-130-3	Halosulfuron-methyl (ISO)
10101-96-9	233-263-7	nickel(II) selenite
101316-59-0	309-865-1	Distillates (petroleum), hydrodesulfurized middle coker
101316-62-5	309-867-2	Extract residues (coal), light oil alk., acid ext., indene fraction
101316-66-9	309-870-9	Hydrocarbons, C6-8, hydrogenated sorption-dearomatized, toluene raffination
101316-67-0	309-871-4	Hydrocarbons, C6-rich, hydrotreated light naphtha distillates, solvent-refined
101316-69-2	309-874-0	Lubricating oils (petroleum), C>25, solvent-extd., deasphalted, dewaxed, hydrogenated
101316-72-7	309-877-7	Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated
101316-76-1	309-879-8	Naphtha (petroleum), hydrodesulfurized full-range coker

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CAS Number	EC Number	Name
101316-84-1	309-886-6	Tar, brown-coal, low-temp.
101631-14-5	309-939-3	Distillates (petroleum), heavy steam-cracked
101795-01-1	309-976-5	Naphtha (petroleum), sweetened light
101-90-6	202-987-5	m-bis(2,3-epoxypropoxy)benzene; resorcinol diglycidyl ether
102110-14-5	310-012-0	Hydrocarbons, C3-6, C5-rich, steam-cracked naphtha
102110-15-6	310-013-6	Hydrocarbons, C5-rich, dicyclopentadiene-contg.
102110-55-4	310-057-6	Residues (petroleum), steam-cracked light, arom.
103112-35-2	401-290-5	ethyl 1-(2,4-dichlorophenyl)-5-trichloromethyl-1,2,4-(1H)-triazol-3-carboxylate
103122-66-3	434-350-4	O-isobutyl-N-ethoxy carbonylthiocarbamate
103-33-3	203-102-5	Azobenzene
10381-36-9	233-844-5	trinickel bis(orthophosphate)
105024-66-6	405-020-7	(4-ethoxyphenyl)(3-(4-fluoro-3-phenoxyphenyl)propyl)dimethylsilane
106-47-8	203-401-0	4-chloroaniline
106-89-8	203-439-8	1-chloro-2,3-epoxypropane
106-91-2	203-441-9	2,3-epoxypropyl methacrylate; glycidyl methacrylate
106-93-4	203-444-5	1,2-dibromoethane

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CAS Number	EC Number	Name
106-99-0	203-450-8	Buta-1,3-diene
107-13-1	203-466-5	Acrylonitrile
1072-63-5	214-012-0	1-vinylimidazole
107-30-2	203-480-1	Chloromethyl methyl ether
108225-03-2	402-060-7	(6-(4-hydroxy-3-(2-methoxyphenylazo)-2-sulfonato -7-naphthylamino)- 1,3,5-triazin-2,4-diyl)bis[(amino-1-methylethyl)ammonium] formate
109202-58-6	432-750-3	O-hexyl-N-ethoxy carbonylthiocarbamate
110-49-6	203-772-9	2-methoxyethyl acetate
11099-02-8	234-323-5	Nickel oxide
11113-74-9	234-348-1	nickel hydroxide
11113-75-0	234-349-7	Nickel Sulfide
11132-10-8	-	nickel potassium fluoride
111-41-1	203-867-5	2-(2-aminoethylamino)ethanol
1116-54-7	214-237-4	2,2'-(nitrosoimino)bisethanol
115-09-3	204-064-2	Methylmercuric chloride

Restricted and declarable substance list
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CAS Number	EC Number	Name
118658-99-4	401-500-5	(methylenebis(4,1-phenylenazo(1-(3-(dimethylamino)propyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxopyridine-5,3-diyl))) -1,1'-dipyridinium dichloride dihydrochloride
118-74-1	204-273-9	Hexachlorobenzene
119738-06-6	414-200-4	(+)-tetrahydrofurfuryl-(R)-2-[4-(6-klorkinoxalin-2-yloxi)fenyloxi]propanoat
119-90-4	204-355-4	3,3'-dimethoxybenzidine
119-93-7	204-358-0	4,4'-bi-o-toluidine
12004-35-2	234-454-8	dialuminium nickel tetraoxide
12007-00-0	234-493-0	nickel boride (NiB)
12007-01-1	234-494-6	dinickel boride
12007-02-2	234-495-1	trinickel boride
12031-65-1	-	lithium nickel dioxide
12035-36-8	234-823-3	Nickel dioxide
12035-38-0	234-824-9	nickel stannate
12035-39-1	234-825-4	nickel titanium trioxide
12035-64-2	234-828-0	dinickel phosphide
12035-71-1	-	Heazlewoodite

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CAS Number	EC Number	Name
12035-72-2	234-829-6	Trinickel disulphide
12054-48-7	235-008-5	nickel dihydroxide
12059-14-2	235-033-1	dinickel silicide
120-80-9	204-427-5	1,2-dihydroxybenzene
121158-58-5	310-154-3	phenol, dodecyl-, branched
12137-12-1	-	trinickel tetrasulfide
12142-88-0	235-260-6	nickel telluride
121575-60-8	310-162-7	Pitch, coal tar, high-temp., heat-treated
12201-89-7	235-379-3	nickel disilicide
122-60-1	204-557-2	2,3-epoxypropyl phenyl ether
122-66-7	204-563-5	Hydrazobenzene
12280-03-4 / 12008-41-2	234-541-0	disodium octaborate tetrahydrate
123-39-7	204-624-6	N-methylformamide
12510-42-8		Erionite
12519-85-6	235-688-3	trihydrogen hydroxybis[orthosilicato(4-)]trinickelate(3-)

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CAS Number	EC Number	Name
12607-70-4	235-715-9	[carbonato(2-)] tetrahydroxytrinickel
12619-90-8	235-723-2	nickel boride
12653-76-8	235-752-0	nickel titanium oxide
12673-58-4	-	molybdenum nickel oxide
126-99-8	204-818-0	2-chlorobuta-1,3-diene
12737-30-3	-	cobalt nickel oxide
1304-56-9	215-133-1	Beryllium oxide
13138-45-9	236-068-5	nickel dinitrate
1313-99-1	215-215-7	Nickel monoxide
1314-04-1	-	Millerite
1314-05-2	215-216-2	nickel selenide
1314-06-3	215-217-8	Dinickel trioxide
132-32-1	205-057-7	3-amino-9-ethyl carbazole
1332-21-4		Asbestos
1335-32-6	215-630-3	Lead, bis(acetato-O)tetrahydroxytri-
13360-57-1	236-412-4	Dimethylsulphamoyl chloride

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CAS Number	EC Number	Name
13462-88-9	236-665-0	nickel dibromide
13462-90-3	236-666-6	nickel diiodide
13463-39-3	236-669-2	Tetracarbonylnickel
13464-97-6	236-690-7	Hydrazinium nitrate
13637-71-3	237-124-1	nickel diperchlorate, perchloric acid, nickel(II) salt
13654-40-5	237-138-8	nickel(II) palmitate
13689-92-4	237-205-1	nickel dithiocyanate
137-17-7	205-282-0	2,4,5-trimethylaniline
13765-19-0	237-366-8	Calcium chromate
13770-89-3	237-396-1	nickel bis(sulfamidate), nickel sulfamate
13775-54-7	237-411-1	dinickel orthosilicate
13840-56-7	237-560-2	orthoboric acid, sodium salt
13842-46-1	237-563-9	nickel dipotassium bis(sulfate)
139-65-1	205-370-9	4,4'-thiodianiline
14177-51-6	238-032-4	nickel tungsten tetraoxide
14177-55-0	238-034-5	molybdenum nickel tetraoxide

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CAS Number	EC Number	Name
14216-75-2	238-076-4	nitric acid, nickel salt
14332-34-4	238-278-2	nickel hydrogen phosphate
14448-18-1	238-426-6	dinickel diphosphate
14507-36-9	238-511-8	nickel bis(phosphinate)
14550-87-9	238-596-1	nickel dibromate
1464-53-5	215-979-1	2,2'-bioxirane
14708-14-6	238-753-4	nickel bis(tetrafluoroborate)
14721-18-7	238-766-5	nickel chromate
148-24-3	205-711-1	quinolin-8-ol;8-hydroxyquinoline
148434-03-1	405-030-1	Hydrazine bis(3-carboxy-4-hydroxybenzensulfonate)
148477-71-8	-	spirodiclofen (ISO)
14874-78-3	238-946-3	dinickel hexacyanoferrate
14977-61-8	239-056-8	Chromyl dichloride
14998-37-9	239-086-1	nickel acetate
15060-62-5	239-125-2	nickel selenate
151-56-4	205-793-9	Aziridine

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CAS Number	EC Number	Name
151798-26-4	420-580-2	2-[2-hydroxy-3-(2-chlorophenyl)carbamoyl-1-naphthylazo]-7-[2-hydroxy-3-(3-methylphenyl)carbamoyl-1-naphthylazo]fluoren-9-one
15586-38-6	239-646-5	nickel dichromate
15699-18-0	239-793-2	diammonium nickel bis(sulfate)
15780-33-3	239-876-6	nickel triuranium decaoxide
15843-02-4	239-946-6	formic acid, nickel salt
15851-52-2	239-967-0	nickel tellurium trioxide
15852-21-8	239-974-9	nickel tellurium tetraoxide
1589-47-5	216-455-5	2-methoxypropanol
16039-61-5	-	nickel dilactate
16071-86-6	240-221-1	Disodium [5-[[4'-[[2,6-dihydroxy-3-[[2-hydroxy-5-sulphophenyl]azo]phenyl]azo][1,1'-biphenyl]-4-yl]azo]salicylato(4-)]cuprate(2-)
16083-14-0	240-235-8	nickel(II) trifluoroacetate
16337-84-1	240-408-8	Carbonic acid, nickel salt
164058-22-4	413-590-3	Trisodium [4'-(8-acetylamino-3,6-disulfonato-2-naphthylazo)-4''-(6-benzoylamino-3-sulfonato-2-naphthylazo)-biphenyl-1,3',3'',1'''-tetraolato-O,O',O'',O''']copper(II)
16812-54-7	240-841-2	Nickel (II) sulphide

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CAS Number	EC Number	Name
17169-61-8	-	phosphoric acid, calcium nickel salt
18283-82-4	242-161-1	citric acid, ammonium nickel salt
183196-57-8	418-260-2	potassium 1-methyl-3-morpholinocarbonyl-4-[3-(1-methyl-3-morpholinocarbonyl-5-oxo-2-pyrazolin-4-ylidene)-1-propenyl]pyrazole-5-olate
18718-11-1	242-522-3	nickel bis(dihydrogen phosphate)
18721-51-2	242-533-3	nickel(II) hydrogen citrate
189-55-9	205-877-5	Benzo[rs]pentaphene
19372-20-4	-	diphosphoric acid, nickel(II) salt
199327-61-2	429-400-7	7-methoxy-6-(3-morpholin-4-yl-propoxy)-3H-quinazolin-4-one
20039-37-6	243-478-8	Pyridinium dichromate
2040-90-6	433-890-8	2-chloro-6-fluoro-phenol
20543-06-0	243-867-2	oxalic acid, nickel salt
210555-94-5		phenol, 4-dodecyl-, branched
21136-70-9	244-236-4	Benzidine sulphate
214353-17-0	433-580-2	1-(2-amino-5-chlorophenyl)-2,2,2-trifluoro-1,1-ethanediol, hydrochloride
21436-97-5		2,4,5-trimethylaniline hydrochloride

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CAS Number	EC Number	Name
21784-78-1	244-578-4	nickel(II) silicate
2223-95-2	218-744-1	nickel(II) octadecanoate, nickel(II) stearate
22398-80-7		indium phosphide
22605-92-1	245-119-0	citric acid, nickel salt
22673-19-4	245-152-0	dibutylbis(pentane-2,4-dionatoO,O')tin
2475-45-8	219-603-7	1,4,5,8-tetraaminoanthraquinone
25321-14-6	246-836-1	Dinitrotoluene
25376-45-8	246-910-3	Diaminotoluene
25808-74-6	247-278-1	Lead hexafluorosilicate
2602-46-2	220-012-1	Tetrasodium 3,3'-[[[1,1'-biphenyl]-4,4'-diylbis(azo)]]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonate]
26043-11-8	247-430-7	nickel hexafluorosilicate
2687-91-4	220-250-6	N-Ethyl-2-pyrrolidone
27140-08-5	248-259-0	Phenylhydrazine hydrochloride
27366-72-9	435-470-1	N,N-(dimethylamino)thioacetamide hydrochloride
27637-46-3	248-585-3	nickel isooctanoate
288-32-4	206-019-2	Imidazole

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CAS Number	EC Number	Name
29317-63-3	249-555-2	nickel(II) isooctanoate
302-97-6	414-990-0	3-oxoandrost-4-ene-17-β-carboxylic acid
3033-77-0	221-221-0	2,3-epoxypropyltrimethylammonium chloride
3165-93-3	221-627-8	4-chloro-o-toluidinium chloride
31748-25-1	250-788-7	nickel silicate (3:4)
3333-67-3	222-068-2	Basic nickel carbonate, Carbonic acid, nickel (2+) salt, Nickel carbonate
334-88-3	206-382-7	Diazomethane
3349-06-2	222-101-0	nickel diformate
3349-08-4	222-102-6	nickel(II) propionate
34492-97-2	-	Bunsenite
36026-88-7	252-840-4	nickel phosphinate
36341-27-2	252-984-8	Benzidine acetate
3724-43-4	425-970-6	chloro-N,N-dimethylformiminium chloride
373-02-4	206-761-7	nickel di(acetate)
37321-15-6	253-461-7	silicic acid, nickel salt
37894-46-5	253-704-7	6-(2-chloroethyl)-6-(2-methoxyethoxy)-2,5,7,10-tetraoxa-6-silaundecane

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CAS Number	EC Number	Name
3906-55-6	223-463-2	nickel bis(4-cyclohexylbutyrate)
39156-41-7	254-323-9	4-methoxy-m-phenylenediammonium sulphate
39819-65-3	254-642-3	nickel bis(benzenesulfonate)
399-95-1	402-230-0	4-amino-3-fluorophenol
40722-80-3	429-740-6	(2-chloroethyl)(3-hydroxypropyl)ammonium chloride
4454-16-4	224-699-9	nickel bis(2-ethylhexanoate)
4682-01-3	414-850-9	Hydrazine-tri-nitromethane
4995-91-9	225-656-7	nickel(II) octanoate
50-00-0	200-001-8	Formaldehyde
5146-66-7	225-918-0	3,7-dimethylocta-2,6-dienenitrile
51594-55-9	424-280-2	(R)-1-chloro-2,3-epoxypropane
51-79-6	200-123-1	Urethane
51818-56-5	257-447-1	neodecanoic acid, nickel salt
52033-74-6	257-622-2	Phenylhydrazinium sulphate (2:1)
5216-25-1	226-009-1	a,a,a,4-tetrachlorotoluene
52502-12-2	257-970-5	nickel divanadium hexaoxide

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CAS Number	EC Number	Name
52625-25-9	258-051-1	nickel 3,5-bis(tert-butyl)-4-hydroxybenzoate (1:2)
531-85-1	208-519-6	Benzidine dihydrochloride
531-86-2	208-520-1	[[1,1'-biphenyl]-4,4'-diyl]diammonium sulphate
540-73-8		1,2-dimethylhydrazine
542-56-3	208-819-7	Isobutyl nitrite
542-88-1	208-832-8	Oxybis[chloromethane]
546-67-8	208-908-0	Lead tetraacetate
547-67-1	208-933-7	nickel oxalate
553-71-9	209-046-8	nickel dibenzoate
5543-57-7	226-907-3	(S)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone
5543-58-8	226-908-9	(R)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone
556-52-5	209-128-3	2,3-epoxypropan-1-ol
5571-36-8	427-230-8	cyclic 3-(1,2-ethanediylacetale)-estra-5(10),9(11)-diene-3,17-dione
557-19-7	209-160-8	nickel dicyanide
5625-90-1	227-062-3	N,N'-methylenedimorpholine; N,N'-methylenebismorpholine;[formaldehyde released from N,N'-methylenebismorpholine];[MBM]
569-61-9	209-321-2	4,4'-(4-iminocyclohexa-2,5-dienylidenemethylene)dianiline hydrochloride

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CAS Number	EC Number	Name
57044-25-4	404-660-4	R-2,3-epoxy-1-propanol
57-14-7	200-316-0	N,N-dimethylhydrazine
57-57-8	200-340-1	Propiolactone
581-89-5	209-474-5	2-nitronaphthalene
58591-45-0	261-346-8	cobalt nickel dioxide
592-62-1	209-765-7	(methyl-ONN-azoxy)methyl acetate
593-60-2	209-800-6	Bromoethylene
59-88-1	200-444-7	Phenylhydrazinium chloride
602-01-7	210-013-5	2,3-dinitrotoluene
60207-90-1	262-104-4	propiconazole (ISO)
602-87-9	210-025-0	1,2-dihydro-5-nitroacenaphthylene
60-34-4	200-471-4	methylhydrazine
606-20-2	210-106-0	2,6-dinitrotoluene
610-39-9	210-222-1	3,4-dinitrotoluene
612-82-8	210-322-5	4,4'-bi-o-toluidine dihydrochloride
612-83-9	210-323-0	3,3'-dichlorobenzidine dihydrochloride

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CAS Number	EC Number	Name
613-35-4	210-338-2	N,N-[1,1-biphenyl]-4,4-diylbisacetamide
615-05-4	210-406-1	4-methoxy-m-phenylenediamine
61571-06-0	407-330-8	Tetrahydrothiopyran-3-carboxaldehyde
618-85-9	210-566-2	3,5-dinitrotoluene
619-15-8	210-581-4	2,5-dinitrotoluene
621-64-7	210-698-0	Nitrosodipropylamine
62-55-5	200-541-4	Thioacetamide
62-75-9	200-549-8	Dimethylnitrosoamine
630-08-0	211-128-3	Carbon monoxide
64741-41-9	265-041-0	Naphtha (petroleum), heavy straight-run
64741-42-0	265-042-6	Naphtha (petroleum), full-range straight-run
64741-45-3	265-045-2	Residues (petroleum), atm. tower
64741-46-4	265-046-8	Naphtha (petroleum), light straight-run
64741-47-5	265-047-3	Natural gas condensates (petroleum)
64741-48-6	265-048-9	Natural gas (petroleum), raw liq. Mix
64741-50-0	265-051-5	Distillates (petroleum), light paraffinic

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CAS Number	EC Number	Name
64741-51-1	265-052-0	Distillates (petroleum), heavy paraffinic
64741-52-2	265-053-6	Distillates (petroleum), light naphthenic
64741-53-3	265-054-1	Distillates (petroleum), heavy naphthenic
64741-54-4	265-055-7	Naphtha (petroleum), heavy catalytic cracked
64741-55-5	265-056-2	Naphtha (petroleum), light catalytic cracked
64741-57-7	265-058-3	Gas oils (petroleum), heavy vacuum
64741-59-9	265-060-4	Distillates (petroleum), light catalytic cracked
64741-60-2	265-062-5	Distillates (petroleum), intermediate catalytic cracked
64741-61-3	265-063-0	Distillates (petroleum), heavy catalytic cracked
64741-62-4	265-064-6	Clarified oils (petroleum), catalytic cracked
64741-63-5	265-065-1	Naphtha (petroleum), light catalytic reformed
64741-64-6	265-066-7	Naphtha (petroleum), full-range alkylate
64741-66-8	265-068-8	Naphtha (petroleum), light alkylate
64741-67-9	265-069-3	Residues (petroleum), catalytic reformer fractionator
64741-68-0	265-070-9	Naphtha (petroleum), heavy catalytic reformed
64741-69-1	265-071-4	Naphtha (petroleum), light hydrocracked

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CAS Number	EC Number	Name
64741-70-4	265-073-5	Naphtha (petroleum), isomerization
64741-74-8	265-075-6	Naphtha (petroleum), light thermal cracked
64741-75-9	265-076-1	Residues (petroleum), hydrocracked
64741-76-0	265-077-7	Distillates (petroleum), heavy hydrocracked
64741-78-2	265-079-8	Naphtha (petroleum), heavy hydrocracked
64741-80-6	265-081-9	Residues (petroleum), thermal cracked
64741-81-7	265-082-4	Distillates (petroleum), heavy thermal cracked
64741-82-8	265-084-5	Distillates (petroleum), light thermal cracked
64741-83-9	265-085-0	Naphtha (petroleum), heavy thermal cracked
64741-84-0	265-086-6	Naphtha (petroleum), solvent-refined light
64741-86-2	265-088-7	Distillates (petroleum), sweetened middle
64741-87-3	265-089-2	Naphtha (petroleum), sweetened
64741-88-4	265-090-8	Distillates (petroleum), solvent-refined heavy paraffinic
64741-89-5	265-091-3	Distillates (petroleum), solvent-refined light paraffinic
64741-95-3	265-096-0	Residual oils (petroleum), solvent deasphalted
64741-96-4	265-097-6	Distillates (petroleum), solvent-refined heavy naphthenic

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CAS Number	EC Number	Name
64741-97-5	265-098-1	Distillates (petroleum), solvent-refined light naphthenic
64742-01-4	265-101-6	Residual oils (petroleum), solvent-refined
64742-04-7	265-103-7	Extracts (petroleum), heavy paraffinic distillate solvent
64742-05-8	265-104-2	Extracts (petroleum), light paraffinic distillate solvent
64742-11-6	265-111-0	Extracts (petroleum), heavy naphthenic distillate solvent
64742-44-5	265-146-1	Distillates (petroleum), clay-treated heavy naphthenic
64742-46-7	265-148-2	Distillates (petroleum), hydrotreated middle
64742-48-9	265-150-3	Naphtha (petroleum), hydrotreated heavy
64742-49-0	265-151-9	Naphtha (petroleum), hydrotreated light
64742-52-5	265-155-0	Distillates (petroleum), hydrotreated heavy naphthenic
64742-53-6	265-156-6	Distillates (petroleum), hydrotreated light naphthenic
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic
64742-55-8	265-158-7	Distillates (petroleum), hydrotreated light paraffinic
64742-56-9	265-159-2	Distillates (petroleum), solvent-dewaxed light paraffinic
64742-57-0	265-160-8	Residual oils (petroleum), hydrotreated
64742-59-2	265-162-9	Gas oils (petroleum), hydrotreated vacuum

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CAS Number	EC Number	Name
64742-61-6	265-165-5	Slack wax (petroleum)
64742-62-7	265-166-0	Residual oils (petroleum), solvent-dewaxed
64742-65-0	265-169-7	Distillates (petroleum), solvent-dewaxed heavy paraffinic
64742-66-1	265-170-2	Naphtha (petroleum), catalytic dewaxed
64742-67-2	265-171-8	Foots oil (petroleum)
64742-70-7	265-174-4	Paraffin oils (petroleum), catalytic dewaxed heavy
64742-71-8	265-176-5	Paraffin oils (petroleum), catalytic dewaxed light
64742-73-0	265-178-6	Naphtha (petroleum), hydrodesulfurized light
64742-78-5	265-181-2	Residues (petroleum), hydrodesulfurized atmospheric tower
64742-79-6	265-182-8	Gas oils (petroleum), hydrodesulfurized
64742-80-9	265-183-3	Distillates (petroleum), hydrodesulfurized middle
64742-82-1 / 8052-41-3	265-185-4	Stoddard Solvent; Naphtha (petroleum), hydrodesulfurized heavy
64742-83-2	265-187-5	Naphtha (petroleum), light steam-cracked
64742-86-5	265-189-6	Gas oils (petroleum), hydrodesulfurized heavy vacuum
64742-89-8	265-192-2	Solvent naphtha (petroleum), light aliph.

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CAS Number	EC Number	Name
64742-90-1	265-193-8	Residues (petroleum), steam-cracked
64742-95-6	265-199-0	Solvent naphtha (petroleum), light arom.
64743-01-7	265-206-7	Petrolatum (petroleum), oxidized
64-86-8	200-598-5	colchicine
64969-36-4	265-294-7	[3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl]diammonium bis(hydrogen sulphate)
65229-23-4	-	nickel boron phosphide
65277-42-1	265-667-4	1-[4-[4-[[[(2SR,4RS)-2-(2,4-dichlorophenyl)-2-(imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazin-1-yl]ethanoneketoconazole
65321-67-7	265-697-8	Toluene-2,4-diammonium sulphate
65405-96-1	265-748-4	[u-[carbonato(2-)-O:O']] dihydroxy trinickel
65996-79-4	266-013-0	Solvent naphtha (coal)
66-81-9	200-636-0	Cicloheximide
67952-43-6	267-897-0	nickel dichlorate
68016-03-5	268-169-5	cobalt dimolybdenum nickel octaoxide
680-31-9	211-653-8	Hexamethylphosphoric triamide
6804-07-5	229-879-0	Carbadox

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CAS Number	EC Number	Name
68049-83-2		Azafenidin
6807-17-6	401-720-1	4,4-isobutylethylidenediphenol
68130-19-8	-	silicic acid, lead nickel salt
68130-36-9	268-585-7	molybdenum nickel hydroxide oxide phosphate
68131-75-9	268-629-5	Gases (petroleum), C3-4
68134-59-8	268-755-0	formic acid, copper nickel salt
68186-89-0	269-051-6	C.I. 77332, C.I. Pigment Black 25, cobalt nickel gray periclase
68333-22-2	269-777-3	Residues (petroleum), atmospheric
68333-25-5	269-781-5	Distillates (petroleum), hydrodesulfurized light catalytic cracked
68391-11-7	269-929-9	Pyridine, alkyl derivs.
68409-99-4	270-071-2	Gases (petroleum), catalytic cracked overheads
68410-05-9	270-077-5	Distillates (petroleum), straight-run light
68410-71-9	270-088-5	Raffinates (petroleum), catalytic reformer ethylene glycol-water countercurrent exts.
68410-96-8	270-092-7	Distillates (petroleum), hydrotreated middle, intermediate boiling
68410-97-9	270-093-2	Distillates (petroleum), light distillate hydrotreating process, low-boiling
68411-07-4	614-455-3	Copper Lead Resorcyate Salicylate Complex

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CAS Number	EC Number	Name
68475-60-5	270-654-1	Alkanes, C4-5
68475-70-7	270-658-3	Aromatic hydrocarbons, C6-8, naphtha-raffinate pyrolyzate-derived
68475-79-6	270-660-4	Distillates (petroleum), catalytic reformed depentanizer
68475-80-9	270-662-5	Distillates (petroleum), light steam-cracked naphtha
68476-26-6	270-667-2	Fuel gases
68476-29-9	270-670-9	Fuel gases, crude oil distillates
68476-32-4	270-674-0	Fuel oil, residues-straight-run gas oils, high-sulfur
68476-33-5	270-675-6	Fuel oil, residual
68476-40-4	270-681-9	Hydrocarbons, C3-4
68476-46-0	270-686-6	Hydrocarbons, C3-11, catalytic cracker distillates
68476-49-3	270-689-2	Hydrocarbons, C2-4, C3-rich
68476-50-6	270-690-8	Hydrocarbons, C=5, C5-6-rich
68476-55-1	270-695-5	Hydrocarbons, C5-rich
68476-85-7	270-704-2	Petroleum gases, liquefied
68476-86-8	270-705-8	Petroleum gases, liquefied, sweetened
68477-33-8	270-724-1	Gases (petroleum), C3-4, isobutane-rich

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CAS Number	EC Number	Name
68477-35-0	270-726-2	Distillates (petroleum), C3-6, piperylene-rich
68477-38-3	270-727-8	Distillates (petroleum), cracked steam-cracked petroleum distillates
68477-50-9	270-735-1	Distillates (petroleum), polymd. steam-cracked petroleum distillates, C5-12 fraction
68477-53-2	270-736-7	Distillates (petroleum), steam-cracked, C5-12 fraction
68477-69-0	270-750-3	Gases (petroleum), butane splitter overheads
68477-71-4	270-752-4	Gases (petroleum), catalytic-cracked gas oil depropanizer bottoms, C4-rich acid-free
68477-77-0	270-759-2	Gases (petroleum), catalytic reformed naphtha stripper overheads
68477-83-8	270-765-5	Gases (petroleum), C3-5 olefinic-paraffinic alkylation feed
68477-87-2	270-769-7	Gases (petroleum), deisobutanizer tower overheads
68477-90-7	270-772-3	Gases (petroleum), depropanizer dry, propene-rich
68478-17-1	270-796-4	Residues (petroleum), heavy coker gas oil and vacuum gas oil
68512-62-9	270-984-6	Residues (petroleum), light vacuum
68512-91-4	270-990-9	Hydrocarbons, C3-4-rich, petroleum distillate
68513-02-0	270-991-4	Naphtha (petroleum), full-range coker
68513-03-1	270-993-5	Naphtha (petroleum), light catalytic reformed, arom.-free
68513-66-6	271-010-2	Residues (petroleum), alkylation splitter, C4-rich

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CAS Number	EC Number	Name
68513-69-9	271-013-9	Residues (petroleum), steam-cracked light
68514-79-4	271-058-4	Petroleum products, hydrofiner-powerformer reformates
68515-84-4	271-112-7	olivine, nickel green
68516-20-1	271-138-9	Naphtha (petroleum), steam-cracked middle arom.
68527-18-4	271-260-2	Gas oils (petroleum), steam-cracked
68527-23-1	271-264-4	Naphtha (petroleum), light steam-cracked arom.
68527-26-4	271-266-5	Naphtha (petroleum), light steam-cracked, debenzenized
68527-27-5	271-267-0	Naphtha (petroleum), full-range alkylate, butane-contg.
68553-00-4	271-384-7	Fuel oil, no. 6
68602-83-5	271-624-0	Gases (petroleum), C1-5, wet
68603-08-7	271-635-0	Naphtha (petroleum), arom
68606-10-0	271-726-5	Gasoline, pyrolysis, debutanizer bottoms
68606-11-1	271-727-0	Gasoline, straight-run, topping-plant
68606-26-8	271-735-4	Hydrocarbons, C3
68607-30-7	271-763-7	Residues (petroleum), topping plant, low-sulfur
68610-24-2	271-853-6	C.I. 77900

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CAS Number	EC Number	Name
68783-04-0	272-180-0	Extracts (petroleum), solvent-refined heavy paraffinic distillate solvent
68783-07-3	272-183-7	Gases (petroleum), refinery blend
68783-08-4	272-184-2	Gas oils (petroleum), heavy atmospheric
68783-12-0	272-186-3	Naphtha (petroleum), unsweetened
68783-65-3	272-205-5	Gases (petroleum), C2-4, sweetened
68783-66-4	272-206-0	Naphtha (petroleum), light, sweetened
68814-67-5	272-338-9	Gases (petroleum), refinery
68814-89-1	272-342-0	Extracts (petroleum), heavy paraffinic distillates, solvent-deasphalted
68919-10-8	272-883-2	Gases (petroleum), straight-run stabilizer off
68919-37-9	272-895-8	Naphtha (petroleum), full-range reformed
68921-08-4	272-931-2	Distillates (petroleum), light straight-run gasoline fractionation stabilizer overheads
68955-27-1	273-263-4	Distillates (petroleum), petroleum residues vacuum
68955-28-2	273-265-5	Gases (petroleum), light steam-cracked, butadiene conc.
68955-29-3	273-266-0	Distillates (petroleum), light thermal cracked, debutanized arom.
68955-35-1	273-271-8	Naphtha (petroleum), catalytic reformed
68989-88-8	273-563-5	Gases (petroleum), crude distn. and catalytic cracking

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CAS Number	EC Number	Name
69012-50-6	273-749-6	Nickel matte
693-98-1	211-765-7	2-methylimidazole
70-25-7	200-730-1	1-methyl-3-nitro-1-nitrosoguanidine
70592-76-6	274-683-0	Distillates (petroleum), intermediate vacuum
70592-77-7	274-684-6	Distillates (petroleum), light vacuum
70592-78-8	274-685-1	Distillates (petroleum), vacuum
70657-70-4	274-724-2	2-methoxypropyl acetate
70692-93-2	274-755-1	nickel zirkonium trioxide
70987-78-9	417-210-7	Oxiranemethanol, 4-methylbenzene-sulfonate, (S)-
71720-48-4	275-897-7	ethyl hydrogen sulfate, nickel(II) salt
71957-07-8	276-205-6	bis(d-gluconato-O1,O2)nickel
72319-19-8	-	2,7-naphthalenedisulfonic acid, nickel(II) salt
72623-85-9	276-736-3	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity
72623-86-0	276-737-9	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
72623-87-1	276-738-4	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
74195-78-1	-	diammonium nickel hexacyanoferrate

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CAS Number	EC Number	Name
74332-73-3	277-822-3	3,3'-dichlorobenzidine sulphate
7440-41-7	231-150-7	Beryllium
7440-48-4	231-158-0	Cobalt
7446-27-7	231-205-5	Trilead bis(orthophosphate)
74499-35-7		phenol, (tetrapropenyl) derivatives
74646-29-0	-	trinickel bis(arsenite)
74753-18-7	277-985-0	4,4'-bi-o-toluidine sulphate
74869-22-0	278-012-2	Lubricating oils
75-07-0	200-836-8	Acetaldehyde
75-21-8	200-849-9	Ethylene oxide
75-26-3	200-855-1	2-bromopropane
75-55-8	200-878-7	2-methylaziridine
7580-31-6	231-480-1	2-ethylhexanoic acid, nickel salt
764-41-0	212-121-8	1,4-dichlorobut-2-ene
7718-54-9	231-743-0	Nickel dichloride
7757-95-1	231-827-7	nickel(II) sulfite

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CAS Number	EC Number	Name
7758-01-2	231-829-8	Potassium bromate
77-58-7	201-039-8	Dibutyltin (dilaurate)
7758-95-4	231-845-5	Lead dichloride
7786-81-4	232-104-9	Nickel sulphate
78-79-5	201-143-3	Isoprene
78-87-5	201-152-2	1,2-dichloropropane; propylene dichloride
79-44-7	201-208-6	Dimethylcarbamoyl chloride
79-46-9	201-209-1	2-nitropropane
8006-61-9	232-349-1	Gasoline, natural
8009-03-8	232-373-2	Petrolatum
8030-30-6	232-443-2	Naphtha
8032-32-4	232-453-7	Ligroine
80387-97-9	279-452-8	2-ethylhexyl [[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]thio]acetate
80-43-3	201-279-3	bis(a,a-dimethylbenzyl) peroxide
81-81-2	201-377-6	Warfarin
82413-20-5	428-010-4	(E)-3-[1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenylbut-1-enyl]phenol

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CAS Number	EC Number	Name
84245-12-5	424-550-1	N-[6,9-dihydro-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]-6-oxo-1H-purin-2-yl]acetamide
84-65-1	201-549-0	anthraquinone
84776-45-4	283-972-0	fatty acids, C8-18 and C18-unsaturated, nickel salts
84852-35-7	284-347-5	(isooctanoato-O)(neodecanoato-O)nickel
84852-36-8	284-348-0	(isodecanoato-O)(isononanoato-O)nickel
84852-37-9	284-349-6	nickel bis(isononanoate)
84852-39-1	284-351-7	(2-ethylhexanoato-O)(isodecanoato-O)nickel
84989-04-8	284-892-9	Tar acids, methylphenol fraction
84989-06-0	284-895-5	Tar acids, xlenol fraction
84989-07-1	284-896-0	Tar acids, 3,5-xlenol fraction
85116-53-6	285-505-6	Distillates (petroleum), hydrodesulfurized thermal cracked middle
85116-58-1	285-509-8	Distillates (petroleum), catalytic reformed hydrotreated light, C8-12 arom. fraction
85116-59-2	285-510-3	Naphtha (petroleum), catalytic reformed light, arom.-free fraction
85135-77-9	285-698-7	(2-ethylhexanoato-O)(neodecanoato-O)nickel
85136-74-9	400-340-3	6-hydroxy-1-(3-isopropoxypropyl)-4-methyl-2-oxo-5-[4-(phenylazo)phenylazo]-1,2-dihydro-3-pyridinecarbonitrile
85166-19-4	285-909-2	(isodecanoato-O)(isooctanoato-O)nickel

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CAS Number	EC Number	Name
85508-43-6	287-468-1	nickel(II) isodecanoate
85508-44-7	287-469-7	nickel(II) neodecanoate
85508-45-8	287-470-2	(2-ethylhexanoato-O)(isononanoato-O)nickel
85508-46-9	287-471-8	(isononanoato-O)(isooctanoato-O)nickel
85509-19-9	403-250-2	A mixture of: 4-[[bis-(4-fluorophenyl)methylsilyl]methyl]-4H-1,2,4-triazole; 1-[[bis-(4-fluorophenyl)methylsilyl]methyl]-1H-1,2,4-triazole
85536-20-5	287-502-5	Solvent naphtha (coal), xylene-styrene cut
85551-28-6	287-592-6	(isononanoato-O)(neodecanoato-O)nickel
86290-81-5	289-220-8	Gasoline
87741-01-3	289-339-5	Hydrocarbons, C4
88-72-2	201-853-3	2-nitrotoluene
90035-08-8	421-960-0	flocoumafen (ISO)
90622-53-0	292-454-3	Alkanes, C12-26-branched and linear
90640-86-1	292-607-4	Distillates (coal tar), heavy oils
90669-74-2	292-656-1	Residual oils (petroleum), hydrotreated solvent dewaxed
90669-76-4	292-658-2	Residues (petroleum), vacuum, light

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CAS Number	EC Number	Name
90669-78-6	292-660-3	Slack wax (petroleum), clay-treated
90989-38-1	292-694-9	Aromatic hydrocarbons, C8
90989-41-6	292-697-5	Aromatic hydrocarbons, C6-10, C8-rich
91-22-5	202-051-6	quinoline
91-23-6	202-052-1	2-nitroanisole
91697-41-5	294-302-1	fatty acids, C6-19-branched, nickel salts
91770-57-9	294-843-3	Residual oils (petroleum), catalytic dewaxed
91-94-1	202-109-0	3,3'-dichlorobenzidine
91-95-2	202-110-6	biphenyl-3,3',4,4'-tetrayltetraamine
91995-18-5	295-279-0	Aromatic hydrocarbons, C8, catalytic reforming-derived
91995-38-9	295-298-4	Hydrocarbons, C4-6, depentanizer lights, arom. Hydrotreater
91995-40-3	295-301-9	Distillates (petroleum), dewaxed light paraffinic, hydrotreated
91995-41-4	295-302-4	Distillates (petroleum), heat-soaked steam-cracked naphtha, C5-rich
91995-50-5	295-311-3	Distillates (petroleum), naphtha steam cracking-derived, hydrotreated light arom.
91995-68-5	295-331-2	Extracts (petroleum), catalytic reformed light naphtha solvent
92045-12-0	295-394-6	Foots oil (petroleum), hydrotreated

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CAS Number	EC Number	Name
92045-14-2	295-396-7	Fuel oil, heavy, high-sulfur
92045-23-3	295-405-4	Hydrocarbons, C4, steam-cracker distillate
92045-29-9	295-411-7	Gas oils (petroleum), thermal-cracked, hydrodesulfurized
92045-50-6	295-431-6	Naphtha (petroleum), heavy catalytic cracked, sweetened
92045-52-8	295-433-7	Naphtha (petroleum), hydrodesulfurized full-range
92045-53-9	295-434-2	Naphtha (petroleum), hydrodesulfurized light, dearomatized
92045-57-3	295-438-4	Naphtha (petroleum), hydrotreated light steam-cracked
92045-58-4	295-440-5	Naphtha (petroleum), isomerization, C6-fraction
92045-59-5	295-441-0	Naphtha (petroleum), light catalytic cracked sweetened
92045-60-8	295-442-6	Naphtha (petroleum), light, C5-rich, sweetened
92045-61-9	295-443-1	Hydrocarbons, C4-12, naphtha-cracking, hydrotreated
92045-63-1	295-445-2	Hydrocarbons, C4-11, naphtha-cracking, arom.-free
92045-64-2	295-446-8	Hydrocarbons, C6-7, naphtha-cracking, solvent-refined
92045-77-7	295-459-9	Petrolatum (petroleum), hydrotreated
92045-80-2	295-463-0	Petroleum gases, liquefied, sweetened, C4 fraction
92061-97-7	295-511-0	Residues (petroleum), catalytic cracking

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CAS Number	EC Number	Name
92062-09-4	295-523-6	Slack wax (petroleum), hydrotreated
92062-36-7	295-551-9	Aromatic hydrocarbons, C9-12, benzene distn.
92129-57-2	295-859-3	slimes and sludges, copper electrolytic refining, decopperised, nickel sulfate
93165-19-6	296-903-4	Distillates (petroleum), C6-rich
93571-75-6	297-401-8	Aromatic hydrocarbons, C7-12, C8-rich
93572-29-3	297-458-9	Gasoline, C5-11, high-octane stabilized reformed
93572-35-1	297-465-7	Hydrocarbons, C7-12, C>9-arom.-rich, reforming heavy fraction
93572-36-2	297-466-2	Hydrocarbons, C5-11, nonaroms.-rich, reforming light fraction
93572-43-1	297-474-6	Lubricating oils (petroleum), base oils, paraffinic
93763-33-8	297-852-0	Hydrocarbons, C6-11, hydrotreated, dearomatized
93763-87-2	297-907-9	Slags, lead-zinc smelting
93821-66-0	298-754-0	Residual oils (petroleum)
93920-09-3	300-093-0	nickel(II) neoundecanoate
93920-10-6	300-094-6	nickel(II) neononanoate
93924-32-4	300-226-2	Foots oil (petroleum), clay-treated
93924-33-5	300-227-8	Gas oils, paraffinic

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CAS Number	EC Number	Name
93983-68-7	301-323-2	dimethylhexanoic acid nickel salt
94114-03-1	302-639-3	Gasoline, pyrolysis, hydrogenated
94551-87-8	305-433-1	slimes and sludges, copper electrolyte refining, decopperised
94-59-7	202-345-4	5-allyl-1,3-benzodioxole
94723-86-1	425-150-8	2-butyryl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one
94733-08-1	305-588-5	Distillates (petroleum), solvent-refined hydrotreated heavy, hydrogenated
94733-15-0	305-594-8	Lubricating oils (petroleum), C18-40, solvent-dewaxed hydrocracked distillate-based
95465-89-7	306-004-1	Hydrocarbons, C4, 1,3-butadiene- and isobutene-free
95-69-2	202-441-6	4-chloro-o-toluidine
96-09-3	202-476-7	(epoxyethyl)benzene
96-12-8	202-479-3	1,2-dibromo-3-chloropropane
96-13-9	202-480-9	2,3-dibromopropan-1-ol
96-23-1	202-491-9	1,3-dichloropropan-2-ol
96-29-7	202-496-6	butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime
97862-82-3	308-132-3	Hydrocarbons, C17-30, hydrotreated distillates, distn. lights
97925-95-6	308-208-6	Ethanol, 2,2'-iminobis-, N-(C13-15- branched and linear alkyl) derivs.

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CAS Number	EC Number	Name
97-99-4	202-625-6	Tetrahydrofurfuryl alcohol
98-07-7	202-634-5	a,a,a-trichlorotoluene
98219-47-7	308-714-7	Naphtha (petroleum), light steam-cracked, thermally treated
98219-64-8	308-733-0	Residues, steam cracked, thermally treated
98-73-7	202-696-3	4-tert-butylbenzoic acid
99328-50-4	308-967-3	Nitric acid, barium salt, reaction products with ammonia, chromic acid (H ₂ CrO ₄) diammonium salt and copper(2+) dinitrate, calcined
EC-402-660-9	402-660-9	Mixture of: disodium 4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-hydroxy-1-(4-sulfonatophenyl)pyrazol-4-yl)penta-2,4-dienylidene)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulfonate; trisodium 4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-oxido-1-(4-sulfonatophenyl)pyrazol-4-yl)penta-2,4-dienylidene)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulfonate
EC-412-790-8	412-790-8	Vernetzer Tmag
EC-421-550-1	421-550-1	A mixture of: 1,3,5-tris(3-aminomethylphenyl)-1,3,5-(1H,3H,5H)-triazine-2,4,6-trione; a mixture of oligomers of 3,5-bis(3-aminomethylphenyl)-1-poly[3,5-bis(3-aminomethylphenyl)-2,4,6-trioxo-1,3,5-(1H,3H,5H)-triazin-1-yl]-1,3,5-(1H,3H,5H))-triazine-2,4,6-t
EC-435-960-3	435-960-3	diethyl (2-(hydroxymethylcarbamoyl)ethyl)phosphonate
EC-700-660-6	700-660-6	Saponification and oxidation product of carnauba wax with acidic sodium dichromate solution
EC-700-720-1	700-720-1	Saponification and oxidation product of carnauba wax with acidic sodium dichromate solution esterified with ethylene glycol

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CAS Number	EC Number	Name
EC-700-725-9	700-725-9	Saponification and oxidation product of carnauba wax with acidic sodium dichromate solution esterified with 1-methyl-1,3-propanediol and subsequent saponification with calcium dihydroxide
No-Cas-1		reaction products of paraformaldehyde and 2- hydroxypropylamine (ratio 3:2);[formaldehyde released from 3,3'-methylenebis[5-methyloxazolidine] formaldehyde released from oxazolidin];[MBO]
No-Cas-2		reaction products of paraformaldehyde with 2- hydroxypropylamine (ratio 1:1);[formaldehyde released from a,a,a-trimethyl-1,3,5-triazine- 1,3,5(2H,4H,6H)-triethanol];[HPT]
No-Cas-3		e-glass microfibres of representative composition; [Calcium-aluminium-silicate fibres with random orientation with the following representative composition (% given by weight): SiO ₂ 50,0-56,0 %, Al ₂ O ₃ 13,0-16,0 %, B ₂ O ₃ 5,8-10,0 %, Na ₂ O < 0,6 %, K ₂ O < 0,4 %, CaO 15,0-24,0 %, MgO < 5,5 %, Fe ₂ O ₃ < 0,5 %, F ₂ < 1,0 %. Process: typically produced by flame attenuation and rotary process. (Additional individual elements may be present at low levels; the process list does not preclude innovation).]