



DETAILED INFORMATION

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Title
Requirement - List of Hazardous Chemical Substances



Table of Contents

		Page
1	Introduction	2
2	List of Hazardous Chemical Substances	2
2.1	Interpretation of hazardous chemical substances list	2
2.2	Comments of terms in the substance table	3
2.3	List of substances	3
3	Main source, legislation, directives to be used to identify the concerned substances	35
4	Change History	36

Classification Export Control

NOT EXPORT CONTROLLEDClassification Company Confidentiality
COMPANY RESTRICTED
Classification Other
NOT CLASSIFIEDIssue
18Document ID
GMS-0110

1 Introduction

This requirement applies to Saab Group and its supply chain.

The document identifies substances or groups of substances which use is banned or restricted.

Requirement documents and guidelines with definitions are available at the Saab Group Supplier Portal (<https://www.saab.com/about/for-suppliers>).

The purpose of the list is to ensure that the Saab Group is in compliance with existing and anticipated environmental legislation, customer requirements and also to fulfill the intentions of our environmental policy.

2 List of Hazardous Chemical Substances

2.1 Interpretation of hazardous chemical substances list

Substances whose use is banned (**banned substances**):

Banned substances shall not in any instance be used in products (articles) and chemical products. The ban does not apply for substances that are unintentional trace contaminants at levels below regulatory thresholds.

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

 Substances whose use shall be limited (**restricted substances**):

A detailed evaluation shall be performed to determine if it is possible to use a less hazardous chemical substance in products (articles) and before chemical products containing such a limited substance are put into use. The limitation does not apply for substances that are unintentional trace contaminants at levels below regulatory thresholds.

2.2 Comments of terms in the substance table

REACH is a regulation (No. 1907/2006) of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemical substances. The European Chemical Agency (ECHA) has published a list of substances of Very High Concern (SVHC) that are identified as candidates for Authorisation. This list is known as the Candidate List. ECHA has also published a list of substances, in Annex XIV, that will be banned from sale and/or use unless Authorisation for continuing use is obtained in advance. In Annex XVII to REACH there is a list of restricted substances. Each entry, in the list, shows the substance or group of substances or the mixture, and the conditions of their restriction and date of inclusion in the candidate list.

Main risks; A = Allergy, C = Cancer, T = Toxic, E = Environmentally hazardous, N = Neurotoxic, O = Ozone depleting, R = Reproductive hazards.

2.3 List of substances

Substance name	Cas-no	Field of application	Main Risks	Comments/Note
Acids, surface treatment etc.				
<i>Substances whose use shall be limited</i>				
Azo colourant and azo dyes which form certain aromatic amines	Several	In textile and leather applications	C	REACH Annex XVII ³⁾

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Substance name	Cas-no	Field of application	Main Risks	Comments/Note
Barium diboron tetraoxide	13701-59-2	Used in paint and laquer	R	Candidate Sub. ¹⁾ 2023-01-17
Boric acid	10043-35-3 11113-50-1	Surface treatment, film developers, soldering products	R	Candidate Sub. ¹⁾ 2010-06-18
Diboron trioxide, boric oxide	1303-86-2	Used in herbicides, fire resistant additive for paints, electronics	R	Candidate Sub. ¹⁾ 2012-06-18
Boron sodium oxide (B ₄ Na ₂ O ₇), hydrate	12267-73-1	Multitude of applications	R	Candidate Sub. ¹⁾ 2010-06-18
Cyanides	Several	Surface treatment	E, T	
Disodium tetraborate, anhydrous (Borax)	1330-43-4 12179-04-3 1303-96-4	Surface treatment, detergents, cleaners	R	Candidate Sub. ¹⁾ 2010-06-18
Ethylenediamine (EDA)	107-15-3	Surface treatment and paint	A	Candidate Sub. ¹⁾ 2018-06-27
Hydrofluoric acid	7664-39-3	Pickling, etching	T	
Methoxy acetic acid	625-45-6	Chemical synthesis	R	Candidate Sub. ¹⁾ 2012-12-19
<i>Substances which must not be used</i>				
Arsenic acid	7778-39-4	Wood preservative,	E, T	Candidate Sub. ¹⁾ 2011-12-19 REACH Annex XVII ³⁾ REACH Annex XIV ⁷⁾ Authorisation needed after 22 Aug. 2017
Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5 13530-68-2	Surface treatment	A, C, R, E, T	Candidate Sub. ¹⁾ 2010-12-15 Authorisation needed after 21 Sept. 2017
Dichromium tris(chromate)	24613-89-6	Surface treatment	A, C, E	Candidate Sub. ¹⁾ 2011-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 22 Jan. 2019

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Substance name	Cas-no	Field of application	Main Risks	Comments/Note
Sodium perborate; perboric acid, sodium salt (EC 239-172-9, 234-390-0)	Several, 15120-21-5 11138-47-9 10332-33-9 13517-20-9 10486-00-7	Bleaching agent in laundry detergent	R	Candidate Sub. ¹⁾ 2014-06-16 REACH Annex XIV ⁷⁾ Authorisation needed after 27 May 2023
Sodium peroxometaborate	7632-04-4	Bleaching agent in laundry detergent	R	Candidate Sub. ¹⁾ 2014-06-16 REACH Annex XIV ⁷⁾ Authorisation needed after 27 May 2023

Hardeners, monomers	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	Intermediate for the production of paints and dyes	C	Candidate Sub. ¹⁾ 2012-06-18
4,4'-isopropylidenediphenol (bisphenol A, BPA)	80-05-7	Monomer used in production of epoxy and polycarbonate polymers	A, R	Candidate Sub. ¹⁾ 2017-01-12
Acid anhydrides (see also below)	Several	Epoxy systems	A	Provision AFS 2014:43 ⁵⁾
Acrylamide	79-06-1	Monomer	C	Candidate Sub. ¹⁾ 2010-03-30
2,2-bis(bromomethyl)propane 1,3-diol (BMP)	3296-90-0	Used in polymers, one- component foams	C	Candidate Sub. ¹⁾ 2021-07-08
2,3-dibromo-1-propanol (2,3-DBPA)	1522-92- 5, 96-13-9	Used in polymers, one- component foams	C	Candidate Sub. ¹⁾ 2021-07-08
2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo- 2,2-bis(bromomethyl)-1-propanol (TBNPA)	36483-57-5	Used in polymers, one- component foams	C	Candidate Sub. ¹⁾ 2021-07-08

Classification Export Control

NOT EXPORT CONTROLLED

Classification Company Confidentiality
COMPANY RESTRICTED
Classification Other
NOT CLASSIFIED

Issue
18

Document ID
GMS-0110

Hardeners, monomers	Cas-no	Field of application	Main Risks	Comments/Note
Diuron	330-54-1	Accelerator in composite	E, T, C	
Hexahydromethylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	Epoxy systems		Candidate Sub. ¹⁾ 2012-12-19 Provision AFS 2014:43 ⁵⁾
Cyclohexane-1,2-dicarboxylic anhydride, hexahydrophthalic anhydride	85-42-7 13149-00-3 14166-21-3	Epoxy systems		Candidate Sub. ¹⁾ 2012-12-19 Provision AFS 2014:43 ⁵⁾
2-Methoxyaniline	90-04-0	Production of azo dyes and pigments	C	Candidate Sub. ¹⁾ 2011-12-19
2-methylimidazole	693-98-1	Rubber, polymers and adhesives	R	Candidate Sub. ¹⁾ 2020-06-25
4,4'-(1-methylpropylidene)bisphenol (Bisphenol B)	77-40-7	Used in polymers		Candidate Sub. ¹⁾ 2021-07-08
N-(hydroxymethyl)acrylamide	924-42-5	Used as monomer and in paints and surface coatings.	C, M	Candidate Sub. ¹⁾ 2022-06-10
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	Intermediate for the production of paints and dyes	C	Candidate Sub. ¹⁾ 2012-06-18
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	EC No. 700-960-7	Used in adhesives, sealants and surface treatment products		Candidate Sub. ¹⁾ 2024-01-23
Pentachlorobenzenethiol	133-49-3	Additive in rubber industry		TSCA PBT ¹⁰⁾
Propylene oxide (Methyloxirane)	75-56-9	Monomer used in production of polymers	C	Candidate Sub. ¹⁾ 2012-12-19
β-TGIC	59653-74-6	Triglycidylisocyanurate (TGIC) is used in powder coatings	A, R	Candidate Sub. ¹⁾ 2012-06-18
TGIC	2451-62-9	Triglycidylisocyanurate (TGIC) is used in powder coatings	A, R	Candidate Sub. ¹⁾ 2012-06-18

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Hardeners, monomers	Cas-no	Field of application	Main Risks	Comments/Note
Toluenediisocyanate (2,4-)	584-84-9	Adhesive, paint	A, T	REACH Annex XVII ³⁾
Toluenediisocyanate (2,6-)	91-08-7	Adhesive, paint	A, T	REACH Annex XVII ³⁾
Tris(2-metoxietoxi)vinylsilan	1067-53-4	Used in rubber, polymers and sealants	R	Candidate Sub. ¹⁾ 2022-01-17
1-vinylimidazole	1072-63-5	Monomer in UV lacquers, inks and adhesives	R	Candidate Sub. ¹⁾ 2020-06-25
<i>Substances which must not be used</i>				
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	Curing agent and cross-linker in polyurethane systems	C, E	Candidate Sub. ¹⁾ 2011-12-19 Provision AFS 2014:43 ⁵⁾ REACH Annex XIV ⁷⁾ Authorisation needed after 22 Nov. 2017
Metylenedianiline (4,4'-) (MDA)	101-77-9	Composite	E, T, C	Candidate Sub. ¹⁾ 2008-10-28 Provision AFS 2014:43 ⁵⁾ REACH Annex XIV ⁷⁾ Authorisation needed after 21 Aug. 2014
Polymer of formaldehyde and aniline (PMDA)	25214-70-4	Precursor to methylene diphenyldiisocyanate (MDI), epoxy systems	E, T, C	Candidate Sub. ¹⁾ 2011-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 22 Aug. 2017

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Lubricants, biocides, preservative etc.	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
Anthracene	120-12-7	In pyrotechnic products	E	Candidate Sub. ¹⁾ 2008-10-28
Benz[a]anthracene	56-55-3	Belongs to the group Polycyclic aromatic hydrocarbons (PAH)	C, E	Candidate Sub. ¹⁾ 2018-01-15
Benzo[def]chrysene (Benzo[a]pyrene, BaP))	50-32-8	Belongs to the group Polycyclic aromatic hydrocarbons (PAH)	C, R, E	Candidate Sub. ¹⁾ 2016-06-20
Benzo[ghi]perylene	191-24-2	Belongs to the group Polycyclic aromatic hydrocarbons (PAH)	E	Candidate Sub. ¹⁾ 2018-06-27
Benzo[k]fluoranthene	207-08-9	Belongs to the group Polycyclic aromatic hydrocarbons (PAH)	C	Candidate Sub. ¹⁾ 2019-01-15
Chrysene	218-01-9	Belongs to the group Polycyclic aromatic hydrocarbons (PAH)	C, E	Candidate Sub. ¹⁾ 2018-01-15
Butylhydroxytoluene (BHT)	128-37-0	In lubricants	E	
Chlorocresol, -meta	59-50-7	Biocide	E, A	
Chlorocresol, -ortho	1570-64-5	Biocide	E	
Chloromethyl isothiazolinone	26172-55-4	Biocide in aqueous sol.	A	
Colophony	Several	In adhesives, cutting fluids	A	
Creosotes	Several	Wood preservative	T	
Diphenylamine	122-39-4	In lubricants	E, T	
Disodium octaborate	12008-41-2	Biocide	R	Candidate Sub. ¹⁾ 2018-06-27
6,6'-Di-tert-butyl-2,2'-metylendi-p-kresol	119-47-1	Used in rubber, adhesives, lubricants, fuel and as a binder	R	Candidate Sub. ¹⁾ 2022-01-17
Fluoranthene	206-44-0, 93951-69-0	Belongs to the group Polycyclic aromatic hydrocarbons (PAH)	E	Candidate Sub. ¹⁾ 2019-01-15
Formaldehyde	50-00-0	Preservative, fungicide	A, T	

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18
 Document ID
GMS-0110

Lubricants, biocides, preservative etc.	Cas-no	Field of application	Main Risks	Comments/Note
Glutaral	111-30-8	Biocide	A, E	Candidate Sub. ¹⁾ 2021-07-08
Isobutyl 4-hydroxybenzoate	4247-02-3	Used in coating products, filler and putties		Candidate Sub. ¹⁾ 2023-01-17
Methyl isothiazolinone	2682-20-4	Biocide in aqueous sol.	A	
Mineral oils with PAH's (IP 346 DMSO extract \geq 3%)	Several	Base oils, lubricants, etc.	C	
Phenanthrene	85-01-8	Belongs to the group Polycyclic aromatic hydrocarbons (PAH)		Candidate Sub. ¹⁾ 2019-01-15
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	Several	Formulation of lubricant additives and fuel system cleaners	R	Candidate Sub. ¹⁾ 2021-07-08
p-(1,1-dimethylpropyl)phenol	80-46-6	Used for microbiological protection of water based products and as a chemical Intermediate	A	Candidate Sub. ¹⁾ 2017-01-12
Phenol, isopropylated, phosphate (3:1)	68937-41-7	Use as a flame retardant, plasticizer or additive in hydraulic fluids, lubricants and greases, coatings, adhesives, and sealants	E	TSCA PBT ¹⁰⁾
Pyrene	129-00-0, 1718-52-1	Belongs to the group Polycyclic aromatic hydrocarbons (PAH)		Candidate Sub. ¹⁾ 2019-01-15
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear	93925-00-9	Used in lubricants and greases		Candidate Sub. ¹⁾ 2018-01-15
Sodium nitrite	7632-00-0	Anti-rust agent	C	

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Lubricants, biocides, preservative etc.	Cas-no	Field of application	Main Risks	Comments/Note
2,4,6-tri-tert-butylphenol	732-26-3	Antioxidants in fuel additives, fuel injector cleaners and additives in oil and lubricants	A	TSCA PBT ¹⁰⁾
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	Used in lubricants	E	Candidate Sub. ¹⁾ 2022-01-17
<i>Substances which must not be used</i>				
Alkanes, C10-13, chloro	85535-84-8	In oils, fire retardants	E, C	Candidate Sub. ¹⁾ 2008-10-28 POP REGULATION ²⁾
Anthracene oil and paste	90640-80-5 91995-17-4 91995-15-2 90640-82-7 90640-81-6	Manufacture of other substances (carbon black), impregnating, corrosion protection	C, E	Candidate Sub. ¹⁾ 2010-01-13 REACH Annex XIV ⁷⁾ Authorisation needed after 4 Oct. 2020
Chlorinated paraffins	Several	In oils, fire retardants	E	
Pitch, coal tar	65996-93-2	Manufacture of other substances	C, E	Candidate Sub. ¹⁾ 2010-01-13 REACH Annex XIV ⁷⁾ Authorisation needed after 4 Oct. 2020
Polychlorinated biphenyls (PCBs)	1336-36-3	Insulators, oils	E	POP REGULATION ²⁾
Polychlorinated terphenyls (PCTs)	61788-33-8	In oils, fire retardants	E	REACH Annex XVII ³⁾
Polychlorinated naphthalenes	70776-03-3	In oils, fire retardants	E	POP REGULATION ²⁾
Trixylyl phosphate	25155-23-1	Hydraulic fluids, plasticizer	R	Candidate Sub. ¹⁾ 2013-12-16 REACH Annex XIV ⁷⁾ Authorisation needed after 27 May 2023

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Solvents/Cooling agents	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	Solvent in organic reactions, in oil products for motor vehicles	R	Candidate Sub. ¹⁾ 2012-06-18
1,2-Diethoxyethane, Ethylenglycoldiethylether (EGDEE)	629-14-1	Solvent in paint	R	Candidate Sub. ¹⁾ 2012-12-19
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	Solvent and in use in the production of chemicals, electrolyte in Lithium batteries	R	Candidate Sub. ¹⁾ 2012-06-18
1,4-dioxane	123-91-1	Solvent	C	Candidate Sub. ¹⁾ 2021-07-08
1,2,3 – Trichloropropane	96-18-4	For cleaning	C, R	Candidate Sub. ¹⁾ 2011-06-20
1-methyl-2-pyrrolidone	872-50-4	Solvent, paint stripping	R	Candidate Sub. ¹⁾ 2011-06-20 REACH Annex XVII ³⁾
2-Ethoxyethanol	110-80-5	Solvent in paint	R	Candidate Sub. ¹⁾ 2010-12-15
2-Ethoxyethanol acetate	111-15-9	Solvent in paint	R	Candidate Sub. ¹⁾ 2011-06-20
2-Methoxyethanol	109-86-4	Solvent in paint	R	Candidate Sub. ¹⁾ 2010-12-15 Provision AFS 2014:43 ⁵⁾
2-Methoxyethanol acetate	110-49-6	Solvent in paint	R	Candidate Sub. ¹⁾ 2019-07-16 Provision AFS 2014:43 ⁵⁾
Benzene	71-43-2	Petrol, solvent	C	REACH Annex XVII ³⁾
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	Welding and soldering	R	Candidate Sub. ¹⁾ 2021-01-19
Chloroform	67-66-3	Solvent	C, R	REACH Annex XVII ³⁾
Dimethylformamide	68-12-2	Solvent in sealants	R	Candidate Sub. ¹⁾ 2012-12-19 REACH Annex XVII ³⁾
Formamide	75-12-7	Solvent	R	Candidate Sub. ¹⁾ 2012-06-18
Furan	110-00-9	Solvent	C	Candidate Sub. ¹⁾ 2012-12-19

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Solvents/Cooling agents	Cas-no	Field of application	Main Risks	Comments/Note
HCFC's	Several	Solvents, Cooling agents	O	Ozone depleting substances ⁵⁾
Hexane	110-54-3	Solvent	N	
Hydrazine	302-01-2	Rocket fuel, corrosion inhibitor	C, E, T	Candidate Sub. ¹⁾ 2011-06-20 Provision AFS 2014:43 ⁵⁾
Limonene	Several	For cleaning, degreaser	A, E	
N,N-dimethylacetamide (DMAC)	127-19-5	Solvent in sealants and used in the production of fibres/films	R	Candidate Sub. ¹⁾ 2011-12-19
Orthoboric acid, sodium salt	13840-56-7	Solvent and corrosion inhibitor	R	Candidate Sub. ¹⁾ 2021-07-08
Tetrachloroethylene	127-18-4	Solvent	C	
<i>Substances which must not be used</i>				
1-bromopropane (n-propyl bromide, nPB)	106-94-5	Solvent for vapour degreasing and cleaning	R	Candidate Sub. ¹⁾ 2012-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 4 July 2020
1,2-Dichloroethane	107-06-2	Production of vinyl chloride, solvent, paint stripping	C	Candidate Sub. ¹⁾ 2011-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 22 Nov. 2017
2,4-dinitrotoluene	121-14-2	Used for production of TDI, in manufacture of explosives	C, E, T	Candidate Sub. ¹⁾ 2010-01-13 REACH Annex XIV ⁷⁾ Authorisation needed after 21 August 2015
Bis(2-methoxyethyl) ether	111-96-6	Solvent in organic reactions	R	Candidate Sub. ¹⁾ 2011-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 22 Aug. 2017

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Solvents/Cooling agents	Cas-no	Field of application	Main Risks	Comments/Note
Carbon tetrachloride	56-23-5	Solvent	O, C, T	
CFC's	Several	Cooling agents	O	Ozone depleting substances ⁵⁾
Chloropentafluoroethane (CFC 115)	76-15-3	For cleaning, release agent	O	Ozone depleting substances ⁵⁾
Dichlorotetrafluoroethane (CFC 114)	76-14-2	For cleaning, release agent	O	Ozone depleting substances ⁵⁾
Hexachlorobuta-1,3-diene	87-68-3	Solvent in rubber manufacturing and hydraulic, heat transfer and/or transformer fluid	E, A	POP REGULATION ²⁾ TSCA PBT ¹⁰⁾
Methylene chloride	75-09-2	Paint stripping	C	REACH Annex XVII ³⁾
Musk xylene	81-15-2	Consumer products	E, C	Candidate Sub. ¹⁾ 2008-10-28 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Aug 2014
1,1,1-Trichloroethane	71-55-6	Solvent	O	Ozone depleting substances ⁵⁾
Trichloroethylene	79-01-6	Degreasing	C	Candidate Sub. ¹⁾ 2010-06-18 REACH Annex XIV ⁷⁾ Authorisation needed after 21 April. 2016
Trichlorotrifluoroethane (CFC 113)	76-13-1	For cleaning, release agent	O	Ozone depleting substances ⁵⁾

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Fibres	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
Aluminosilicate Refractory Ceramic Fibres fulfilling the following conditions: a) Al ₂ O ₃ , SiO ₂ and ZrO ₂ are present within the following conc. Ranges (w/w): Al ₂ O ₃ : 35-36 %, SiO ₂ : 47.5-50 %, ZrO ₂ : 15-17 %. b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (µm).	Several	Used for high temperature insulation	C	Candidate Sub. ¹⁾ 2011-12-19 Fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 and fulfilling given conditions
Zirconia Aluminosilicate Refractory Ceramic Fibres fulfilling the following conditions: a) Al ₂ O ₃ , SiO ₂ and ZrO ₂ are present within the following conc. Ranges (w/w): Al ₂ O ₃ : 35-36 %, SiO ₂ : 47.5-50 %, ZrO ₂ : 15-17 %. b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (µm).	Several	Used for high temperature insulation	C	Candidate Sub. ¹⁾ 2011-12-19 Fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 and fulfilling given conditions
<i>Substances which must not be used</i>				
Asbestos	Several	Insulating material	C	REACH Annex XVII ³⁾

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Tensides	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
Alkylphenoethoxylate phosphate	Several	Anion tenside	E	
Alkylphenoethoxylate sulphate	Several	Anion tenside	E	
4-heptylphenol, branched and linear	Several	Can be used in lubricants and at manufacture of polymers.		Candidate Sub. ¹⁾ 2017-01-12 Non-exhaustive list of Cas-no ⁸⁾
Linear alkylbenzene sulfonate (LAS > C12)	Several	Anion tenside	E	
Quaternary alkyl ammonium compounds	Several	Kation tenside	E	
<i>Substances which must not be used</i>				
Nonylphenol all isomeric forms	Several	Used as etoxylated	E	REACH Annex XVII ³⁾
4-Nonylphenol, branched and linear	Several	Used for production of surfactants, catalyst in epoxy	E	Candidate Sub. ¹⁾ 2012-12-19 REACH Annex XVII ³⁾ Non-exhaustive list of Cas-no ⁸⁾
4-Nonylphenol, branched and linear, ethoxylated	Several	Production of surfactants	E	Candidate Sub. ¹⁾ 2013-06-20 Non-exhaustive list of Cas-no ⁸⁾ REACH Annex XIV ⁷⁾ Authorisation needed after 4 Jan. 2021
Nonylphenoethoxylates	Several	Cleaning agent	E	REACH Annex XVII ³⁾
4-tert-Octylphenol	140-66-9	Production of resins, non-ionic surfactants and rubber additives.	E	Candidate Sub. ¹⁾ 2011-12-19

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18
 Document ID
GMS-0110

Plasticizers	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
Dicyclohexyl phthalate (DCHP)	84-61-7	Manufacturing of PVC, rubber and plastic articles	R	Candidate Sub. ¹⁾ 2018-06-27
Diisohexyl phthalate	71850-09-4		R	Candidate Sub. ¹⁾ 2020-01-16
Dimethyl phthalate	131-11-3	In adhesive, paint and plastics	T	
Di-n-octyl phthalate (DNOP)	117-84-0	In adhesive, paint and plastics	E	
<i>Substances which must not be used</i>				
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	In plastics and as a stabilizer in oils	R	Candidate Sub. ¹⁾ 2014-06-16 REACH Annex XIV ⁷⁾ Authorisation needed after 27 February 2023
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	In plastics and as a stabilizer in oils	R	Candidate Sub. ¹⁾ 2015-06-15 REACH Annex XIV ⁷⁾ Authorisation needed after 27 February 2023
Butylbenzyl phthalate (BBP)	85-68-7	In adhesive, paint and plastics	E, R	Candidate Sub. ¹⁾ 2008-10-28 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Febr. 2015 REACH Annex XVII ³⁾
Diethylhexyl phthalate(DEHP)	117-81-7	In adhesive, paint and plastics	R	Candidate Sub. ¹⁾ 2008-10-28 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Febr. 2015 REACH Annex XVII ³⁾

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Plasticizers	Cas-no	Field of application	Main Risks	Comments/Note
Dihexyl phthalate	84-75-3	In adhesive, paint and plastics	R	Candidate Sub. ¹⁾ 2013-12-16 REACH Annex XIV ⁷⁾ Authorisation needed after 27 Feb 2023
Diisobutyl phthalate	84-69-5	In adhesive, paint and plastics	R	Candidate Sub. ¹⁾ 2010-01-13 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Febr. 2015 REACH Annex XVII ³⁾
Diisooheptyl phthalate (DIHP, 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters (C7-rich))	71888-89-6	In adhesive, paint and plastics	R	Candidate Sub. ¹⁾ 2011-06-20 REACH Annex XIV ⁷⁾ Authorisation needed after 4 July 2020
Di-n-butyl phthalate (DBP)	84-74-2	In adhesive, paint and plastics	E, R	Candidate Sub. ¹⁾ 2008-10-28 REACH Annex XVII ³⁾ REACH Annex XIV ⁷⁾ Authorisation needed after 21 Febr. 2015
Di(2-metoxylethyl)phthalate	117-82-8	In adhesive, paint and plastics	E, R	Candidate Sub. ¹⁾ 2011-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 4 July 2020
Di(heptyl, nonyl, undecyl) phthalate (DHNUP, 1,2-Benzenedicarboxylic acid, di-C7-11-alkyl esters, branched and linear)	68515-42-4	In adhesive, paint and plastics	R	Candidate Sub. ¹⁾ 2011-06-20 REACH Annex XIV ⁷⁾ Authorisation needed after 4 July 2020

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Plasticizers	Cas-no	Field of application	Main Risks	Comments/Note
Di-n-pentyl phthalate (DNPP)	131-18-0	In adhesive, paint and plastics	R	Candidate Sub. ¹⁾ 2013-06-20 REACH Annex XIV ⁷⁾ Authorisation needed after 4 July 2020
N-pentyl-isopentylphthalate	776297-69-9	In adhesive, paint and plastics	R	Candidate Sub. ¹⁾ 2012-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 4 July 2020
Diisopentylphthalate (DIPP)	605-50-5	In adhesive, paint and plastics	R	Candidate Sub. ¹⁾ 2012-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 4 July 2020
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	In adhesive, paint and plastics	R	Candidate Sub. ¹⁾ 2012-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 4 July 2020

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Flame and Fire retardants	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	Several, most common 26040-51-7	Used as flame retardant and softener in adhesives and polymers		Candidate Sub. ¹⁾ 2023-01-17
Brominated flame retardants	Several	In textiles, plastics, etc	E	
Dechlorane Plus	13560-89-9	In textiles, plastics, etc	E	Candidate Sub. ¹⁾ 2018-01-15
1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	Used as flame retardant		Candidate Sub. ¹⁾ 2023-01-17
Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)	Several	Flame retardant, plasticizers in plastics, sealants, rubber and textiles	E	Candidate Sub. ¹⁾ 2021-07-08
Tetrabromobisphenol A (TBBPA)	79-94-7	Used as flame retardant and in the manufacture of polymers	C, E	Candidate Sub. ¹⁾ 2023-01-17
<i>Substances which must not be used</i>				
Decabromodiphenyl ether (DecaBDE)	1163-19-5	In plastics	E	Candidate Sub. ¹⁾ 2012-12-19 POP REGULATION ²⁾ TSCA ¹⁰⁾
Halons	Several	Fire retardants	O	Ozone depleting substances ⁵⁾
Octabromodiphenyl ether	32536-52-0	In plastics	E	RoHS Directive ⁶⁾
Hexabromocyclododecane (HBCDD) and all isomers	25637-99-4 3194-55-6 134237-51-7 134237-50-6 134237-52-8	In plastics, mainly polystyrene	E	Candidate Sub. ¹⁾ 2008-10-28 REACH Annex XIV ⁷⁾ Authorisation needed after 21 August 2015 POP REGULATION ²⁾
Pentabromodiphenyl ether	32534-81-9	In plastics	E	RoHS Directive ⁶⁾ POP REGULATION ²⁾

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Flame and Fire retardants	Cas-no	Field of application	Main Risks	Comments/Note
Polybrominated biphenyl (PBB)	Several	In plastics	E, N, C	RoHS Directive ⁶⁾
Polybrominated diphenylethers (PBDE)	Several	In plastics	E	RoHS Directive ⁶⁾ POP REGULATION ²⁾
Tris(2-chloroethyl)phosphate	115-96-8	In plastics	R, E	Candidate Sub. ¹⁾ 2010-01-13 REACH Annex XIV ⁷⁾ Authorisation needed after 21 August 2015

Metal compounds	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
Antimony compounds	Several	In lubricants, composite and plastics	T, C	
Beryllium and its compounds	Several	In electric equipment	T, C	
Bis(tributyltin)oxide (TBTO)	56-35-9	Biocide, in polyurethane foam	E, T	Candidate Sub. ¹⁾ 2008-10-28
Chromium(VI) and its compounds	Several	Surface treatment	A, C, R, E, T	RoHS Directive ⁶⁾
Calcium arsenate	7778-44-1		C, T	Candidate Sub. ¹⁾ 2011-12-19
Cobalt dichloride	7646-79-9	Surface treatment, solid lubricants	C, E	Candidate Sub. ¹⁾ 2008-10-28
Cobalt(II) carbonate	513-79-1		C, T	Candidate Sub. ¹⁾ 2010-12-15
Cobalt(II) diacetate	71-48-7	Surface treatment	C, T	Candidate Sub. ¹⁾ 2010-12-15
Cobalt(II) dinitrate	10141-05-6	Surface treatment	C, T	Candidate Sub. ¹⁾ 2010-12-15
Cobalt(II) sulphate	10124-43-3	Surface treatment, pigment	C, T	Candidate Sub. ¹⁾ 2010-12-15
Acetic acid, lead salt, basic	51404-69-4	In electronic equipment	R	Candidate Sub. ¹⁾ 2012-12-19
Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	In adhesives, paints, lacquers and sealants	R	Candidate Sub. ¹⁾ 2020-06-25

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Metal compounds	Cas-no	Field of application	Main Risks	Comments/Note
Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	Several, most common 3648-18-8 91648-39-4	In polymers, adhesives, sealants and paint	R	Candidate Sub. ¹⁾ 2021-01-19
Dioxobis(stearato)trilead	12578-12-0	Stabiliser in polymers (PVC)	R	Candidate Sub. ¹⁾ 2012-12-19
Fatty acids, C16-18, lead salts	91031-62-8	Stabiliser in polymers (PVC)	R	Candidate Sub. ¹⁾ 2012-12-19
Pentalead tetraoxide sulphate	12065-90-6	Stabiliser in polymers (PVC), lead batteries	R	Candidate Sub. ¹⁾ 2012-12-19
[Phthalate(2-)]dioxotrilead	69011-06-9	Stabiliser in polymers (PVC)	R	Candidate Sub. ¹⁾ 2012-12-19
Pyrochlore, antimony lead yellow (Pigment Yellow 41)	8012-00-8	Pigment (glass, plastics, ceramics)	R	Candidate Sub. ¹⁾ 2012-12-19
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	68784-75-8	Coating of glass lamp bulbs	R	Candidate Sub. ¹⁾ 2012-12-19
Sulfurous acid, lead salt, dibasic	62229-08-7	Stabiliser in polymers (PVC)	R	Candidate Sub. ¹⁾ 2012-12-19
Trilead dioxide phosphonate	12141-20-7	Stabiliser in polymers (PVC)	R	Candidate Sub. ¹⁾ 2012-12-19
Tetraethyllead	78-00-2	Formulations of fuel additives and fuel blends	R	Candidate Sub. ¹⁾ 2012-12-19
Tetralead trioxide sulphate	12202-17-4	Stabiliser in polymers (PVC), lead batteries	R	Candidate Sub. ¹⁾ 2012-12-19
Lead and its compounds	Several	Pigment in paint, soldering	N, E, R	RoHS Directive ⁶⁾
Lead	7439-92-1	Alloys, batteries, soldering	R	Candidate Sub. ¹⁾ 2018-06-27 REACH Annex XVII ³⁾
Lead azide	13424-46-9	Initiator in detonators and pyrotechnic devices	R; E	Candidate Sub. ¹⁾ 2011-12-19
Lead(II) bis(methanesulfonate)	17570-76-2	Catalyst, electroplating and other electronic applications	E, R	Candidate Sub. ¹⁾ 2012-06-18

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Metal compounds	Cas-no	Field of application	Main Risks	Comments/Note
Lead bis(tetrafluoroborate)	13814-96-5	Electrolytic lead plating	R	Candidate Sub. ¹⁾ 2012-12-19
Lead cyanamidate (Lead cyanamide)	20837-86-9		R	Candidate Sub. ¹⁾ 2012-12-19
Lead di(acetate)	301-04-2	Coatings and paints, thinners, paint removes	R	Candidate Sub. ¹⁾ 2013-12-18
Lead dipicrate	6477-64-1	Initiator in detonators and pyrotechnic igniters (fuzes)	R, E	Candidate Sub. ¹⁾ 2011-12-19
Lead dinitrate	10099-74-8	Production of explosives	R	Candidate Sub. ¹⁾ 2012-12-19
Lead hydrogen arsenate	7784-40-9	Precursors to As containing components in electronics	C, R, T, E	Candidate Sub. ¹⁾ 2008-10-28
Lead monoxide	1317-36-8	Used in production of stabilisers, batteries, crystal glass, ceramic	R	Candidate Sub. ¹⁾ 2012-12-19
Lead oxide sulfate	12036-76-9	Stabiliser in polymers (PVC)	R	Candidate Sub. ¹⁾ 2012-12-19
Lead silicate (Silicic acid, lead salt)	11120-22-2	Production of lead crystal ware	R	Candidate Sub. ¹⁾ 2012-12-19
Lead styphnate	15245-44-0	Initiator in detonators and pyrotechnic igniters (fuzes)	R, E	Candidate Sub. ¹⁾ 2011-12-19
Lead tetraoxide (Orange lead)	1314-41-6	Used in production of stabilisers, batteries, crystal glass, ceramic and electronic devices, Initiator in detonators and pyrotechnic devices	R	Candidate Sub. ¹⁾ 2012-12-19
Lead titanium trioxide	12060-00-3	Electronic and optical products	R	Candidate Sub. ¹⁾ 2012-12-19
Lead titanium zirconium oxide	12626-81-2	Processing into electro-ceramic components	R	Candidate Sub. ¹⁾ 2012-12-19
Trilead bis(carbonate) dihydroxide	1319-46-6	Preparation of PTC Ceramic Materials	R	Candidate Sub. ¹⁾ 2012-12-19

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18
 Document ID
GMS-0110

Metal compounds	Cas-no	Field of application	Main Risks	Comments/Note
Tinorganic compounds	Several	In hardener	T, E	REACH Annex XVII ³⁾
Dibutyltin dichloride (DBTC)	683-18-1	Additive for the production of rubber tyres	R	Candidate Sub. ¹⁾ 2012-12-19
Diocetyl tin bis(2-ethylhexyl mercaptoacetate) DOTE	15571-58-1	Stabiliser for PVC	R	Candidate Sub. ¹⁾ 2014-12-17
Reaction mass of DOTE and Octyltintris(2-ethylhexyl mercaptoacetate) MOTE	Several	Stabiliser for PVC	R	Candidate Sub. ¹⁾ 2014-12-17
Triethyl arsenat	15606-95-8	In electronic components (IC)	E, C, T	Candidate Sub. ¹⁾ 2008-10-28
Trilead arsenate	3687-31-8			Candidate Sub. ¹⁾ 2011-12-19
<i>Substances which must not be used</i>				
Ammonium dichromate	7789-09-5		A, C, R, E, T	Candidate Sub. ¹⁾ 2010-06-18 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Sept. 2017
Cadmium and its compounds	7440-43-9 (Cd) Several	Surface treatment	C, E	REACH Annex XVII ³⁾ RoHS ⁶⁾ Do not apply to cadmium plating in components in aerospace or in electrical contacts in critical applications Candidate Sub. ¹⁾ 2013-06-20 (Cadmium)
Cadmium carbonate	513-78-0		C, R	Candidate Sub. ¹⁾ 2018-01-15
Cadmium chloride	10108-64-2	Surface treatment	C, R	Candidate Sub. ¹⁾ 2014-06-16
Cadmium fluoride	7790-79-6		C, R	Candidate Sub. ¹⁾ 2014-12-17
Cadmium hydroxide	21041-95-2		C, R	Candidate Sub. ¹⁾ 2018-01-15
Cadmium nitrate	10325-94-7		C, R	Candidate Sub. ¹⁾ 2018-01-15
Cadmium oxide	1306-19-0		C	Candidate Sub. ¹⁾ 2013-06-20

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Metal compounds	Cas-no	Field of application	Main Risks	Comments/Note
Chromium trioxide	1333-82-0	Surface treatment	A, C, R, E, T	Candidate Sub. ¹⁾ 2010-12-15 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Sept. 2017
Cadmium sulphate	10124-36-4 31119-53-6		C, R	Candidate Sub. ¹⁾ 2014-12-17
Cadmium sulphide	1306-23-6		C	Candidate Sub. ¹⁾ 2013-12-16
Mercury and its compounds	Several	In electric equipment	N, E	REACH Annex XVII ³⁾ RoHS ⁶⁾ EU 2017/852 Restrictions ⁹⁾
Diarsenic pentaoxide	1303-28-2	In electric equipment, biocides	E, C, T	Candidate Sub. ¹⁾ 2008-10-28 REACH Annex XIV ⁷⁾ Authorisation needed after 21 May 2015
Diarsenic trioxide	1327-53-3	In glass material, pesticide	E, C, T	Candidate Sub. ¹⁾ 2008-10-28 REACH Annex XIV ⁷⁾ Authorisation needed after 21 May 2015
Lead chromate	7758-97-6	Pigment in paint	C, R, E	Candidate Sub. ¹⁾ 2010-01-13 REACH Annex XIV ⁷⁾ Authorisation needed after 21 May 2015
Lead chromate molybdate sulphate red	12656-85-8	Pigment in paint	C, R, E	Candidate Sub. ¹⁾ 2010-01-13 REACH Annex XIV ⁷⁾ Authorisation needed after 21 May 2015

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Metal compounds	Cas-no	Field of application	Main Risks	Comments/Note
Lead sulfochromate yellow	1344-37-2	Pigment in paint	C, R, E	Candidate Sub. ¹⁾ 2010-01-13 REACH Annex XIV ⁷⁾ Authorisation needed after 21 May 2015
Pentazinc chromate octahydroxide (basic zinc chromate)	49663-84-5	In Primers	A, C, E	Candidate Sub. ¹⁾ 2011-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 22 Jan. 2019
Potassium chromate	7789-00-6	Surface treatment	A, C, R, E	Candidate Sub. ¹⁾ 2010-06-18 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Sept. 2017
Potassium dichromate	7778-50-9	Surface treatment	A, C, R, E, T	Candidate Sub. ¹⁾ 2010-06-18 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Sept. 2017
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	In Primers	A, C, E	Candidate Sub. ¹⁾ 2011-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 22 Jan. 2019
Sodium chromate	7775-11-3	Surface treatment	A, C, R, E, T	Candidate Sub. ¹⁾ 2010-06-18 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Sept. 2017

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Metal compounds	Cas-no	Field of application	Main Risks	Comments/Note
Sodium dichromate	7789-12-0 10588-01-9	Surface treatment	A, C, R, E, T	Candidate Sub. ¹⁾ 2008-10-28 REACH Annex XIV ⁷⁾ Authorisation needed after 21 Sept. 2017
Strontium chromate	7789-06-2	In Primers	C, E	Candidate Sub. ¹⁾ 2011-06-20 REACH Annex XIV ⁷⁾ Authorisation needed after 22 Jan. 2019

Fluorinated substances	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
Ammoniumpentadecafluorootanoate (APFO)	3825-26-1		E	Candidate Sub. ¹⁾ 2013-06-20
Heptacosafuorotetradecanoic acid	376-06-7		E	Candidate Sub. ¹⁾ 2012-12-19
Pentacosafuorotridecanoic acid	72629-94-8		E	Candidate Sub. ¹⁾ 2012-12-19
Henicosafuoroundecanoic acid	2058-94-8		E	Candidate Sub. ¹⁾ 2012-12-19
Tricosafuorododecanoic acid	307-55-1		E	Candidate Sub. ¹⁾ 2012-12-19
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	Used in textiles, waterproofing agents	R	Candidate Sub.1) 2017-01-12 REACH Annex XVII ³⁾
Perfluorobutane sulfonic acid (PFBS) and its salts	Several	Used in the production of polymers and as flame retardant	-	Candidate Sub. ¹⁾ 2020-01-16

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Fluorinated substances	Cas-no	Field of application	Main Risks	Comments/Note
Perfluoroheptanoic acid and its salts	Several, most common 21049-36-5, 6130-43-4, 375-85-9, 20109-59-5		R	Candidate Sub. ¹⁾ 2023-01-17
Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	Processing aid for fluoropolymer manufacture/lubricating oil additive/surfactant for fire extinguishers/cleaning agent/textile antifouling finishing agent/polishing surfactant/waterproofing agents and in liquid crystal display panels	R, E	Candidate Sub. ¹⁾ 2015-12-17
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	Several, most common 67118-55-2, 13252-13-6, 2062-98-8, 62037-80-3	Used in the production of fluorinated polymers	-	Candidate Sub. ¹⁾ 2019-07-16

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

<i>Substances which must not be used</i>				
Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	Several		E	Candidate Sub. ¹⁾ 2017-01-12 Non-exhaustive list of Cas-no ⁸⁾ POP REGULATION ²⁾
Perfluorooctanic acid (PFOA)	335-67-1	Process aids in the manufacture of different fluoropolymers	E	Candidate Sub. ¹⁾ 2013-06-20 REACH Annex XVII ³⁾ POP REGULATION ²⁾
Perfluorooctanic sulfonic acid and its derivatives (PFOS)	Several	Surface coatings, polish, fire fighting foam	E	POP REGULATION ²⁾

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Others	Cas-no	Field of application	Main Risks	Comments/Note
<i>Substances whose use shall be limited</i>				
Radioactive substances	Several	Optical and measuring devices, detectors		
4-aminoazobenzene	60-09-3	Production of pigment, azo dye	C	Candidate Sub. ¹⁾ 2012-12-19 Provision AFS 2014:43 ⁵⁾
3-benzylidene camphor	15087-24-8	UV-filter in cosmetics		Candidate Sub. ¹⁾ 2019-01-15
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	Used in surface treatment, adhesive, sealants, lubricants and cleaning products		Candidate Sub. ¹⁾ 2024-01-23
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	Used in the production of polymers	R	Candidate Sub. ¹⁾ 2020-01-16
Biphenyl-4-ylamine	92-67-1		C	Candidate Sub.1) 2012-12-19 Provision AFS 2014:43 ⁵⁾
Bis(4-chlorophenyl) sulphone	80-07-9	Used in production of chemicals, plastic and rubber products.		Candidate Sub. ¹⁾ 2023-06-14
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6		R	Candidate Sub. ¹⁾ 2019-01-15
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	Used in the production of polymers	R	Candidate Sub.1) 2020-01-16
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	Intermediate in chemical synthesis	C A	Candidate Sub. ¹⁾ 2012-12-19 Provision AFS 2014:43 ⁵⁾
4,4'-methylenedi-o-toluidine	838-88-0	Intermediate in organic synthesis, azo dye	C	Candidate Sub. ¹⁾ 2012-12-19
6-methoxy-m-toluidine (p-cresidine)	120-71-8	Intermediate in chemical synthesis	C	Candidate Sub. ¹⁾ 2012-12-19
o-aminoazotoluene	97-56-3	Azo dye	C	Candidate Sub. ¹⁾ 2012-12-19

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Others	Cas-no	Field of application	Main Risks	Comments/Note
o-toluidine	95-53-4	Intermediate in organic synthesis	C	Candidate Sub. ¹⁾ 2012-12-19
4,4'-oxydianiline and its salts	101-80-4	Monomer	C	Candidate Sub. ¹⁾ 2012-12-19
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	Manufacture of inks and paint for printing, dyeing of materials	C	Candidate Sub. ¹⁾ 2012-06-18
Bis(α,α-dimethylbenzyl) peroxide	80-43-3	Used in the manufacture of plastic products, chemicals and rubber products	R	Candidate Sub. ¹⁾ 2024-06-27
Bumetrizole (UV-326)	3896-11-5	Used in adhesives, sealants, surface treatment and cleaning products		Candidate Sub. ¹⁾ 2024-01-23
Butyl 4-hydroxybenzoate	94-26-8	Cosmetics, personal care products and pharmaceuticals		Candidate Sub. ¹⁾ 2020-06-25
C.I. Basic Blue 26, [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	Ink and paint, dyeing of materials	C	Candidate Sub. ¹⁾ 2012-06-18
C.I. Basic Violet 3, 4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]*	548-62-9	Dye	C	Candidate Sub. ¹⁾ 2012-06-18
C.I. Direct Black 38, Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate	1937-37-7	Dye	C	Candidate Sub. ¹⁾ 2013-12-16

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Others	Cas-no	Field of application	Main Risks	Comments/Note
C.I. Direct Red 28, Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)	573-58-0	Dye	C	Candidate Sub. ¹⁾ 2013-12-16
C.I. Solvent Blue 4, α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol <i>See *above</i>	6786-83-0	Dye	C	Candidate Sub. ¹⁾ 2012-06-18
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-Oxazolidine	143860-04-2	Additive in urethane systems	R	Candidate Sub. ¹⁾ 2012-12-19
Decamethylcyclopentasiloxane (D5)	541-02-6	Washing and cleaning products	E	Candidate Sub. ¹⁾ 2018-06-27 REACH Annex XVII ³⁾
Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3			Candidate Sub. ¹⁾ 2012-12-19
Diethyl sulphate	64-67-5	Intermediate in synthesis	C	Candidate Sub. ¹⁾ 2012-12-19 Provision AFS 2014:43 ⁵⁾
2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	Surface treatment products	R	Candidate Sub. ¹⁾ 2024-01-23
Dimethyl sulphate	77-78-1	Intermediate in synthesis	C	Candidate Sub. ¹⁾ 2012-12-19 Provision AFS 2014:43 ⁵⁾
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	Used in paints, sealants, polymers and surface treatment products	R	Candidate Sub. ¹⁾ 2023-06-14
Dodecamethylcyclohexasiloxane (D6)	540-97-6	In lubricants, sealants, washing and cleaning products	E	Candidate Sub. ¹⁾ 2018-06-27 REACH Annex XVII ³⁾
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	In production of rubber	R	Candidate Sub. ¹⁾ 2013-12-16
Melamine	108-78-1	Used in adhesives, sealants and polymers		Candidate Sub. ¹⁾ 2023-01-17
N-methylacetamide	79-16-3	Intermediate in synthesis	R	Candidate Sub. ¹⁾ 2012-12-19
Oktametylcyklotetrasiloxan (D4)	556-67-2	In sealants	E	Candidate Sub. ¹⁾ 2018-06-27 REACH Annex XVII ³⁾

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110

Others	Cas-no	Field of application	Main Risks	Comments/Note
Phenolphthalein	77-09-8	pH indicator solutions	C	Candidate Sub. ¹⁾ 2011-12-19
1,3-propanesultone	1120-71-4	Electrolyte fluid of lithium ion batteries	C	Candidate Sub. ¹⁾ 2015-12-17
Propylene oxide (Methyloxirane)	75-56-9		C	Candidate Sub. ¹⁾ 2012-12-19
Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	EC 473-390-7	Functional fluids (industrial sites and indoor)		Candidate Sub. ¹⁾ 2023-01-17
4,4'-methylenediphenol (Bisphenol F)	620-92-8			
Nitrobenzene	98-95-3	Manufacture of other substances, mainly aniline	R, T	Candidate Sub. ¹⁾ 2015-12-17
Phenol, methylstyrenated	68512-30-1	Used in paints		Candidate Sub. ¹⁾ 2024-01-23
4,4'-sulphonyldiphenol	80-09-1	Paper products, textile and leather	R	Candidate Sub. ¹⁾ 2023-01-17
Terphenyl, hydrogenated	61788-32-7	In adhesive and sealants	E	Candidate Sub. ¹⁾ 2018-06-27
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	Several, most common 75166-31-3 80-54-6 75166-30-2	Cleaner, polish and wax	R	Candidate Sub. ¹⁾ 2021-07-08
4-tert-butylphenol	98-54-4	In adhesive, sealants, polymers and surface treatment products		Candidate Sub. ¹⁾ 2019-07-16
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (Bisphenol AF)	1478-61-1	Manufacture of rubber products and chemicals		

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Others	Cas-no	Field of application	Main Risks	Comments/Note
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	Several	Used in cosmetics, personal care products and pharmaceuticals		Candidate Sub. ¹⁾ 2022-01-17
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	Several, most common 26523-78-4, 3050-88-2	Used in the production of polymers		Candidate Sub. ¹⁾ 2019-07-16
2,4,6-Tri-tert-butylphenol	732-26-3	Used in the formulation of fuels and other chemical products	R	Candidate Sub. ¹⁾ 2024-01-23
<i>Substances which must not be used</i>				
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	Pesticide	R	Candidate Sub. ¹⁾ 2012-12-19
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	Light stabilization in polymers	E	Candidate Sub. ¹⁾ 2014-12-17 REACH Annex XIV ⁷⁾ Authorisation needed after 27 Nov. 2023
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	Light stabilization in polymers	E	Candidate Sub. ¹⁾ 2015-12-17 REACH Annex XIV ⁷⁾ Authorisation needed after 27 Nov. 2023
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	Light stabilization in polymers	E	Candidate Sub. ¹⁾ 2014-12-17 REACH Annex XIV ⁷⁾ Authorisation needed after 27 Nov. 2023

Classification Export Control

NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Others	Cas-no	Field of application	Main Risks	Comments/Note
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	Light stabilization in polymers	E	Candidate Sub. ¹⁾ 2015-12-17 REACH Annex XIV ⁷⁾ Authorisation needed after 27 Nov. 2023
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	Several, most common 9002-93-1			Candidate Sub. ¹⁾ 2012-12-19 REACH Annex XIV ⁷⁾ Authorisation needed after 4 Jan. 2021 Non-exhaustive list of Cas-no ⁸⁾
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof] (Trade name Karanal, Amber Dioxane)	Several, most common 117933-89-8	Used in applications from fine fragrances through to soaps and detergents	E	Candidate Sub. ¹⁾ 2015-06-15 REACH Annex XIV ⁷⁾ Authorisation needed after 27 Aug. 2023

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
18

 Document ID
GMS-0110
3 Main source, legislation, directives to be used to identify the concerned substances

Note	Legislation, directive etc.
1	REACH Regulation: Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals Candidate List of substances of very high concern for Authorisation. https://echa.europa.eu/web/guest/candidate-list-table
2	Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants. https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32019R1021&from=en
3	REACH Regulation: Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals List of restrictions according to Annex XVII. Each entry shows a substance or a group of substances or a substance in a mixture, and the consequent restriction conditions. https://echa.europa.eu/substances-restricted-under-reach
4	Regulation (EU) 2024/590 of the European Parliament and of the Council of 7 February 2024 on substances that deplete the ozone layer http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32009R1005&from=EN
5	Substance that may only be handled under the authorization of the Swedish Work Environment Authority according to the provision AFS 2014:43 (Only in Swedish).
6	RoHS Directive – http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:174:0088:0110:en:PDF
7	REACH Regulation: Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals List of substances included in Annex XIV ("Authorisation List"). Use of the substance is banned after sunset date, unless there is an authorisation for the specific use. https://echa.europa.eu/authorisation-list
8	Group entry for which numerical identifiers (Cas-no) have not been specified. Non-exhaustive lists of relevant numerical identifiers can be found on ECHA web-site for many group entries.

Classification Export Control
NOT EXPORT CONTROLLED

 Classification Company Confidentiality
COMPANY RESTRICTED
 Classification Other
NOT CLASSIFIED

 Issue
 18

 Document ID
GMS-0110

Note	Legislation, directive etc.
9	REGULATION (EU) 2017/852 on mercury http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32017R0852
10	Federal US Regulation restricting the manufacture (including import), processing, distribution in commerce, use, or disposal of five persistent, bioaccumulative and toxic substances in products and articles, TSCA 40 CFR 751.401. https://www.ecfr.gov/current/title-40/chapter-I/subchapter-R/part-751/subpart-E?toc=1

4 Change History

Issue	Date	Change
16	2022-03-08	Inclusion of candidate substances published by ECHA 2021-07-08, 2022-01-17 and TSCA PBT substances. Clarified text regarding contaminants.
17	2023-04-12	Inclusion of candidate substances published by ECHA 2022-06-10 and 2023-01-17. Updated link to POP legislation. POP regulation added to Perfluorohexane-1-sulphonic acid and its salts.
18	2024-09-11	Inclusion of candidate substances published by ECHA 2023-06-14, 2024-01-23 and 2024-06-27. Bisphenols of similar concern (BoSC) as Bisphenol A added. PFHxS changed from restricted to banned. Legislation on tinorganic compounds withdrawn and therefore removed. Replaced (EC) No 1005/2009 by (EC) No 2024/590. Added Annex XVII according to entry 51, 86, 70, 76. Substances with passed sunset dates changed from restricted to banned.