

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

perform® ID **No Change Service!**

Version
04.00

Revision Date:
17.05.2017

Date of last issue: 19.02.2015
Date of first issue: 11.10.2007

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : perform® ID

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-
stance/Mixture : Disinfectants

Recommended restrictions
on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2

22851 Norderstedt
Germany
Telephone: +49 (0)40/ 52100-0
Telefax: +49 (0)40/ 52100318
mail@schuelke.com
www.schuelke.com

Supplier : Schülke & Mayr UK Ltd.
Cygnet House
1, Jenkin Road, Meadowhall

Sheffield S9 1AT
United Kingdom
Telephone: +44 114 254 35 00
Telefax: +44 114 254 35 01
mail.uk@schulke.com

E-mail address of person
responsible for the
SDS/Contact person : Application Department
+49 (0)40/ 521 00 8800
ADHI@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone num-
ber : UK Poisons Emergency number: 0870 600 6266

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

II 70693-62-8 Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (5 - 15 % anionic surfactants, < 5 % non-ionic surfactants, < 5% soap, < 5 % Phosphonates, perfumes)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The product itself does not burn, but it is oxidising.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture with the following substances and non dangerous additives.

Hazardous components

Chemical name	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)

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Pentapotassium bis(peroxymonosulphate) bis(sulphate)	--- 70693-62-8 274-778-7	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 3; H412	45
Sodium dodecyl sulphate	--- 151-21-3 205-788-1	Flam. Sol. 2; H228 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Chronic 3; H412	5 - 15
Alcohols, C9-11-iso, C10-rich, ethoxylated	--- 78330-20-8 Polymer	Acute Tox. 4; H302 Eye Dam. 1; H318	< 5
Sodium carbonate	011-005-00-2 497-19-8 207-838-8 01-2119485498-19- XXXX	Eye Irrit. 2; H319	< 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : If symptoms persist, call a physician.
 In case of skin contact : Wash off immediately with plenty of water.
 In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 If swallowed : Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Treat symptomatically.,

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Dry powder, Foam, Water spray jet, Carbon dioxide (CO₂)
 Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : The product itself does not burn, but it is oxidising.
 Specific risk from the substance or the product itself, : Formation of oxygen and mildly acidic benzoic acid vapour., Carbon monoxide, Carbon dioxide (CO₂), Sulphur compounds

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its combustion products or evolved gases

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid dust formation.
Advice on protection against fire and explosion : The product itself does not burn, but it is slightly oxidizing (active oxygen content ca. 2%). The product has been shown not to be oxidizing in a test following Directive 67/548/EEC (Method A17, Oxidizing properties).
Hygiene measures : Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.
Further information on storage conditions : Keep container tightly closed. Store in a dry place. Do not store at temperatures above 30°C. Recommended storage temperature: 18 - 25°C
Advice on common storage : No materials to be especially mentioned.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

none

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value

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Pentapotassium bis(peroxymonosulphate) bis(sulphate)	Workers	Inhalation	Long-term systemic effects	0.28 mg/m3
	Workers	Inhalation	Acute systemic effects	50 mg/m3
	Workers	Inhalation	Long-term local effects	0.28 mg/m3
	Workers	Inhalation	Acute local effects	50 mg/m3
	Workers	Skin contact	Long-term systemic effects	20 mg/kg
	Workers	Skin contact	Acute systemic effects	80 mg/kg
	Workers	Skin contact	Acute local effects	0.449 mg/cm2
Sodium dodecyl sulphate	Workers	Skin contact	Long-term systemic effects	4060 mg/kg
	Workers	Inhalation	Long-term systemic effects	285 mg/m3
Sodium carbonate	Workers	Inhalation	Long-term exposure	10 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	Fresh water	0.022 mg/l
	Marine water	0.00222 mg/l
	Fresh water sediment	0.0782 mg/kg
	Marine sediment	0.00796 mg/kg
	Soil	1 mg/kg
	Sewage treatment plant	108 mg/l
	Intermittent use/release	0.0109 mg/l
	Oral	44.44 mg/kg
Sodium dodecyl sulphate	Fresh water	0.137 mg/l
	Marine water	0.0137 mg/l
	Fresh water sediment	4.82 mg/kg
	Marine sediment	0.482 mg/kg
	Soil	0.882 mg/kg
	Intermittent use/release	0.055 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

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- Hand protection : Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.
- Respiratory protection : Breathing apparatus only if aerosol or dust is formed. ABEK-filter
- Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : granular
Colour : white
Odour : pleasant
Odour Threshold : not determined
pH : ca. 4, Concentration: 5 g/l, 20 °C, in water
Melting point/freezing point : No data available
Decomposition temperature : No data available
Boiling point/boiling range : Not applicable
Flash point : Not applicable
Evaporation rate : Not applicable
Flammability (solid, gas) : Not applicable
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : Not applicable
Bulk density : ca. 775 kg/m³
Solubility(ies)
 Water solubility : ca. 20 g/l , 20 °C
Partition coefficient: n-octanol/water : Not applicable
Auto-ignition temperature : No data available
Viscosity
 Viscosity, dynamic : Not applicable
Explosive properties : No data available
Oxidizing properties : The product has been shown not to be oxidizing in a test following Directive 67/548/EEC (Method A17, Oxidizing properties).

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

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10.3 Possibility of hazardous reactions

, Slightly exothermic autodecomposition (> 130°C) if strongly heated

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Do not mix with other products.,

10.6 Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): 2,430 mg/kg
Acute inhalation toxicity : Acute toxicity estimate: 16.1 mg/l
Acute dermal toxicity : Acute toxicity estimate: 19,413 mg/kg

Skin corrosion/irritation**Product:**

Causes severe skin burns and eye damage., Calculation method

Serious eye damage/eye irritation**Product:**

Causes serious eye damage., Calculation method

Respiratory or skin sensitisation**Components:****Pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Did not cause sensitisation on laboratory animals. Maximisation Test, Guinea pig, OECD Test Guideline 406

Sodium dodecyl sulphate:

Did not cause sensitisation on laboratory animals.

Alcohols, C9-11-iso, C10-rich, ethoxylated:

No data available

Sodium carbonate:

No data available

Germ cell mutagenicity**Components:****Pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Genotoxicity in vitro : OECD Test Guideline 471, Not mutagenic in Ames Test
Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Sodium dodecyl sulphate:

Genotoxicity in vitro : OECD Test Guideline 471, not mutagenic
Germ cell mutagenicity- Assessment : not mutagenic

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Germ cell mutagenicity- Assessment : No data available

Sodium carbonate:

Germ cell mutagenicity- Assessment : Contains no ingredient listed as a mutagen

Carcinogenicity**Components:****Pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Carcinogenicity - Assessment : No data available

Sodium dodecyl sulphate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Alcohols, C9-11-iso, C10-rich, ethoxylated:

Carcinogenicity - Assessment : No data available

Sodium carbonate:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity**Components:****Pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Reproductive toxicity - Assessment : No data available

Sodium dodecyl sulphate:

Reproductive toxicity - Assessment : No toxicity to reproduction

Alcohols, C9-11-iso, C10-rich, ethoxylated:

Reproductive toxicity - Assessment : No data available

Sodium carbonate:

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

STOT - single exposure**Components:****Sodium dodecyl sulphate:**

May cause respiratory irritation., Expert judgement and weight of evidence determination.

Sodium carbonate:

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure**Components:****Sodium dodecyl sulphate:**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Sodium carbonate:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

No data available

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Dust contact with the eyes can lead to mechanical irritation.

SECTION 12: Ecological information**12.1 Toxicity****Product:**

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Components:**Pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l, 96 h, OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.5 mg/l, 48 h, OECD Test Guideline 202

Toxicity to algae : ErC50 : > 1 mg/l, 96 h, OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 0.222 mg/l , 37 d, Cyprinodon variegatus (sheepshead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.267 mg/l , 24 h, Daphnia (water flea)

Sodium dodecyl sulphate:

Toxicity to fish : LC50 : > 10 - < 100 mg/l, OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 : > 1 - < 10 mg/l

Toxicity to algae : EC50 : > 100 mg/l

Toxicity to fish (Chronic toxicity) : NOEC: > 1 - < 10 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: <= 1 mg/l , Ceriodaphnia dubia (water flea)

Alcohols, C9-11-iso, C10-rich, ethoxylated:

Toxicity to fish : LC50 (Leuciscus idus): > 100 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 : > 100 mg/l, 48 h

Toxicity to algae : EC50 : > 100 mg/l, 72 h

Sodium carbonate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 200 - 227 mg/l, 48 h

Toxicity to algae : No data available

12.2 Persistence and degradability**Product:**

Biodegradability : Readily biodegradable., OECD 301D / EEC 84/449 C6

Chemical Oxygen Demand (COD) : 7,100 mg/l , 1 % solution

Components:**Pentapotassium bis(peroxymonosulphate) bis(sulphate):**

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Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.

Sodium dodecyl sulphate:

Biodegradability : Readily biodegradable, according to appropriate OECD test.

Alcohols, C9-11-iso, C10-rich, ethoxylated:

Biodegradability : Readily biodegradable, according to appropriate OECD test.

Sodium carbonate:

Biodegradability : The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential**Components:****Pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Bioaccumulation : No data available

Sodium dodecyl sulphate:

Bioaccumulation : Bioaccumulation is unlikely.

Alcohols, C9-11-iso, C10-rich, ethoxylated:

Bioaccumulation : According to experience not expected

Sodium carbonate:

Bioaccumulation : Does not bioaccumulate.

12.4 Mobility in soil**Components:****Pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Mobility : No data available

Sodium dodecyl sulphate:

Mobility : No data available

Alcohols, C9-11-iso, C10-rich, ethoxylated:

Mobility : Adsorbs on soil.

Sodium carbonate:

Mobility : No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects**Components:****Pentapotassium bis(peroxymonosulphate) bis(sulphate):**

Additional ecological information : No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Can be incinerated or landfilled together with household waste in compliance with the regulations, and after consultation with the waste disposal services.

Contaminated packaging : Take empty packaging to the recycling plant.

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Waste key for the unused product(Group) : The waste producer itself must, in consultation with the appropriate authorities and a waste disposal company, obtain a waste code from the EWC (European Waste Catalogue)

SECTION 14: Transport information

14.1 UN number

ADR : UN 3260

IMDG : UN 3260

IATA : UN 3260

14.2 UN proper shipping name

ADR : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Pentapotassium bis(peroxymonosulphate) bis(sulphate))

IMDG : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Pentapotassium bis(peroxymonosulphate) bis(sulphate))

IATA : Corrosive solid, acidic, inorganic, n.o.s.
(Pentapotassium bis(peroxymonosulphate) bis(sulphate))

14.3 Transport hazard class(es)

ADR : 8

IMDG : 8

IATA : 8

14.4 Packing group

ADR
Packing group : III
Classification Code : C2
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : E

IMDG
Packing group : III
Labels : 8
EmS Code : F-A, S-B

IATA
Packing instruction (cargo aircraft) : 864
Packing group : III
Labels : Corrosive

14.5 Environmental hazards

ADR
Environmentally hazardous : no

IMDG
Marine pollutant : no

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14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Volatile organic compounds : none, Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

Other regulations : Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values. Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information

Full text of H-Statements

H228 : Flammable solid.
H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Chronic aquatic toxicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation

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Flam. Sol. : Flammable solids
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Skin Corr. 1B, H314 : Calculation method
Eye Dam. 1, H318 : Calculation method
Aquatic Chronic 3, H412 : Calculation method

Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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