According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Version	Revision Date:	Date of last issue: 05.09.2022
03.06	18.09.2024	

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

1.1 Product identifier				
Trade name	:	thermosept® RKF		
1.2 Relevant identified uses of	the s	substance or mixture and uses advised against		
Use of the Sub- stance/Mixture	:	Cleaning agent		
Recommended restrictions on use	:	For professional users only.		
1.3 Details of the supplier of th	e sa	fety data sheet		
Producer	:	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		
		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 Specialists +49 (0)40/ 521 00 666 AD@schuelke.com		
1.4 Emergency telephone num Emergency telephone num-	ber :	Carechem 24 International:+44 1235 239670		
ber				

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

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thermosept[®] RKF No Change Service!

Version	Revision Date:	Date of last issue: 05.09.2022
03.06	18.09.2024	

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms



.. .

Signal word

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention:

2

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: potassium hydroxide

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.

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Vapours may cause irritation to the eyes, respiratory system and the skin.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Solution of the following substances with harmless additives.

Hazardous components

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

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Version 03.06	Revision Date: 18.09.2024	Date of las	st issue: 05.09.2022	
potassium	hydroxide	1310-58-3 215-181-3 019-002-00-8 01-2119487136-33- XXXX	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 $\overline{}$ specific concentra- tion limit Skin Corr. 1A; H314 >= 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0.5 - < 2 % Eye Irrit. 2; H319 0.5 - < 2 %	>= 3 - < 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Take off all contaminated clothing immediately.			
If inhaled	: Move to fresh air. If symptoms persist, call a physician.			
In case of skin contact	 Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician. 			
In case of eye contact	 In case of eye contact, remove contact lens and rinse imme- diately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention. 			
If swallowed	: Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. Obtain medical attention.			
4.2 Most important symptoms and effects, both acute and delayed				
Symptoms	: corrosive effects			
Risks	: Causes serious eye damage.			

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thermosept[®] RKF No Change Service!

Version	Revision Date:	Date of last issue: 05.09.2022
03.06	18.09.2024	

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	:	Water spray jet Dry powder Foam Carbon dioxide (CO2)
Unsuitable extinguishing media	:	Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Gives off hydrogen by reaction with metals.
5.3 Advice for firefighters Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions : Use personal protective equipment. Avoid contact with skin and eyes. 6.2 Environmental precautions Environmental precautions : Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. 6.3 Methods and material for containment and cleaning up Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 6.4 Reference to other sections see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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thermosept® RKF No Change Service!

Ve 03.	rsion Revision Date: 06 18.09.2024		Date of last issue: 05.09.2022
	Advice on safe handling Advice on protection against fire and explosion	:	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. No special protective measures against fire required. The product is not flammable.
	Hygiene measures	:	Keep away from food and drink.
7.2 Conditions for safe storage, i		inc	luding any incompatibilities
	Requirements for storage areas and containers	:	Store at room temperature in the original container.
	Further information on stor- age conditions	:	Keep away from heat. Keep away from direct sunlight. Keep container tightly closed. Recommended storage temperature: 5 - 25°C
	Advice on common storage	:	Do not store near acids.
7.3	Specific end use(s)		
	Specific use(s)	:	none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
potassium hydrox- ide	1310-58-3	STEL	2 mg/m3	GB EH40

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
potassium hydroxide	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
Silicic acid, potassium salt	Workers	Skin contact	Long-term systemic effects	1.49 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	5.61 mg/m3

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Silicic acid, potassium salt	Fresh water	7.5 mg/l
	Marine water	1 mg/l
	Sewage treatment plant	348 mg/l
	Intermittent use/release	7.5 mg/l

8.2 Exposure controls

Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment



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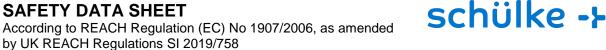
thermosept® RKF	No Change Service!
Version Revision Da 03.06 18.09.2024	te: Date of last issue: 05.09.2022
Eye/face protection Hand protection	: Safety glasses with side-shields conforming to EN166
Directive	: The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Remarks	: Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Pro- longed 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 protec- tion.
Skin and body protection	: Choose body protection according to the amount and concen- tration of the dangerous substance at the work place. Chemical resistant apron
Respiratory protection	 No personal respiratory protective equipment normally re- quired.
Protective measures	: Avoid contact with skin and eyes.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid colourless, -, yellow characteristic not determined
рН	:	14 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature		Not applicable
Boiling point/boiling range Flash point	:	ca. 100 °C > 100 °C Method: ISO 2719
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	ca. 25 hPa (20 °C)
Relative vapour density	:	No data available
Density	:	1.12 - 1.13 g/cm3 (20 °C)
11128_02 ZSDB_P_GB EN		Page 6/14



Version **Revision Date:** Date of last issue: 05.09.2022 03.06 18.09.2024 Solubility(ies) Water solubility completely soluble (20 °C) : Partition coefficient: n-Not applicable : octanol/water Auto-ignition temperature No data available : Viscosity Viscosity, dynamic : ca. 3 mPa*s Method: ISO 3219 Viscosity, kinematic not determined : Explosive properties 2 No data available Oxidizing properties The substance or mixture is not classified as oxidizing. 2 9.2 Other information Flammability (liquids) Does not sustain combustion. :

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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.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	reaction with acids. Possible incompatibility with alkali sensitive materials.
10.4 Conditions to avoid		
Conditions to avoid	:	No data available
10.5 Incompatible materials Materials to avoid	:	Acids Ammonium salts

10.6 Hazardous decomposition products

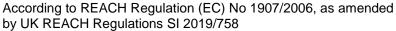
None reasonably foreseeable.

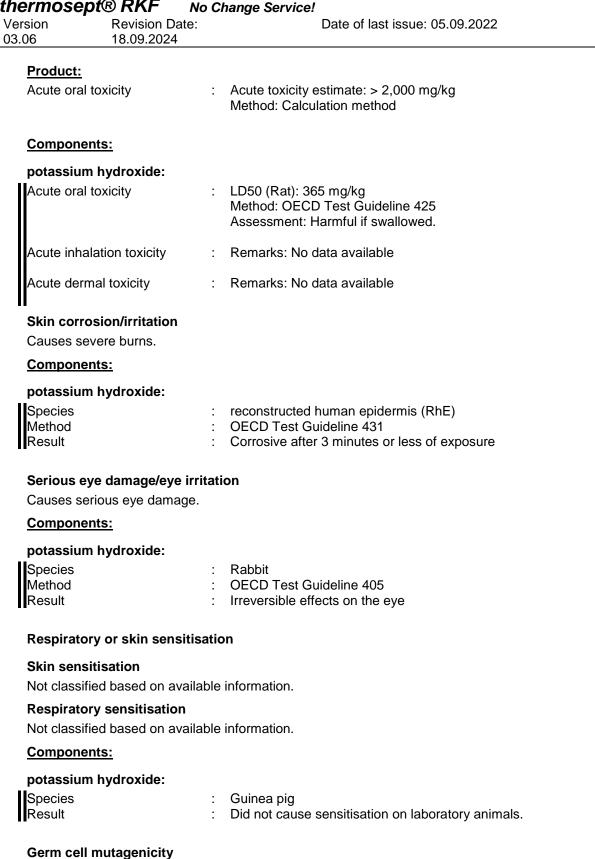
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.





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Not classified based on available information.

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Components:

potassium hydroxide: Genotoxicity in vitro

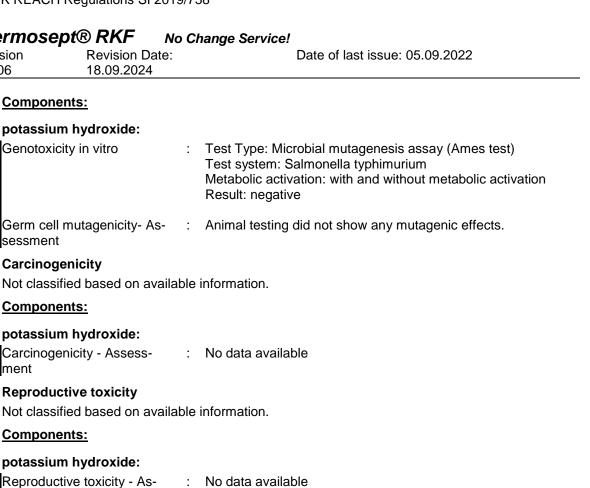
Germ cell mutagenicity- As-

Version

03.06

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

18.09.2024



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Components:

Carcinogenicity

sessment

potassium hydroxide:

Carcinogenicity - Assess-	:	No data available
ment		

Reproductive toxicity

Not classified based on available information.

Components:

potassium hydroxide:

Reproductive toxicity - As-

sessment

STOT - single exposure

Not classified based on available information.

Components:

potassium hydroxide:

Assessment

The substance or mixture is not classified as specific target 1 organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Components:

potassium hydroxide:

Assessment

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

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks :		No data is available on the product itself.
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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



thermosept® RKF No Change Service!

Version	Revision Date:	Date of last issue: 05.09.2022
03.06	18.09.2024	

SECTION 12: Ecological information

12.1 Toxicity

Components:

potassium hydroxide:

Toxicity to fish	:	LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other	:	Remarks: No data available
aquatic invertebrates Toxicity to algae/aquatic plants	:	Remarks: No data available
Ecotoxicology Assessment		
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
12.2 Persistence and degradabil	ity	
Product:		
Biodegradability	:	Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
Components:		
potassium hydroxide:		
Biodegradability	:	Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
12.3 Bioaccumulative potential		
Components:		
potassium hydroxide:		
Bioaccumulation	:	Remarks: Does not bioaccumulate.
12.4 Mobility in soil		
Components:		
potassium hydroxide:		
Mobility	:	Remarks: Mobile in soils
12.5 Results of PBT and vPvB as	sse	ssment
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.
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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



thermosept® RKF No Change Service!

Version	Revision Date:	Date of last issue: 05.09.2022
03.06	18.09.2024	

12.6 Other adverse effects

Product:	
Endocrine disrupting poten- : tial	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation
	(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Additional ecological infor- : mation	No data is available on the product itself.

SECTION 13: Disposal considerations

13.1 Waste treatment methods		
Product	:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

	ADR	:	UN 1814	
	IMDG	:	UN 1814	
	ΙΑΤΑ	:	UN 1814	
14.	2 UN proper shipping name			
	ADR	:	POTASSIUM HYDRO	XIDE SOLUTION
	IMDG	:	POTASSIUM HYDRO	XIDE SOLUTION
	ΙΑΤΑ	:	Potassium hydroxide	solution
14.	3 Transport hazard class(es)			
			Class	Subsidiary risks
	ADR	:	8	
	IMDG	:	8	
	ΙΑΤΑ	:	8	
14.	4 Packing group			
	ADR			
	Packing group	:	II	
	Classification Code	:	C5	
	Hazard Identification Number	:	80	
	Labels	:	8	
	Tunnel restriction code	:	(E)	
	400 00 7000 D 00 EN		D 44/44	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



thermosept® RKF No Change Service!

mermosep		0 0	nange Service!	
Version	Revision Date:			Date of last issue: 05.09.2022
03.06	18.09.2024			
IMDG				
Packing gro	oup	:	II	
Labels		:	8	
EmS Code		:	F-A, S-B	
IATA (Carg	(0			
	struction (cargo	:	855	
aircraft)				
Packing ins	struction (LQ)	:	Y840	
Packing gro	oup	:	II	
Labels		:	Corrosive	
IATA (Pass	senger)			
	struction (passen-	:	851	
ger aircraft)			
	struction (LQ)	:	Y840	
Packing gro	oup	:	II	
Labels		:	Corrosive	
14.5 Environme	ental hazards			
ADR				
	ntally hazardous	:	no	
	,	-	-	
	utant		20	
Marine poll	ulani	·	no	
4.6 Special pr	ecautions for use	er		
The transpo	ort classification(s)	nrc	wided herein ar	e for informational purposes only and solely

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol 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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



thermose	pt® RKF	No Change Service!
		0

Version	Revision Date:	Date of last issue: 05.09.2022
03.06	18.09.2024	

emissions (integrated pollution prevention and control) Not applicable

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

The components of this product are reported in the following inventories:			
TCSI	:	On the inventory, or in compliance with the inventory	
TSCA	:	All substances listed as active on the TSCA inventory	
AIIC	:	On the inventory, or in compliance with the inventory	
DSL	:	All components of this product are on the Canadian DSL	
ENCS	:	On the inventory, or in compliance with the inventory	
ISHL	:	On the inventory, or in compliance with the inventory	
KECI	:	On the inventory, or in compliance with the inventory	
PICCS	:	On the inventory, or in compliance with the inventory	
IECSC	:	On the inventory, or in compliance with the inventory	
NZIoC	:	Not in compliance with the inventory	
TECI	:	On the inventory, or in compliance with the inventory	

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Full text of H-Statements

H290 H302 H314 H318	::	May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.		
Full text of other abbreviations				
Acute Tox.	:	Acute toxicity		
Eye Dam.	:	Serious eye damage		
Met. Corr.	:	Corrosive to metals		
Skin Corr.	:	Skin corrosion		
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits		

GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



thermosept[®] RKF No Change Service!

Version	Revision Date:	Date of last issue: 05.09.2022
03.06	18.09.2024	

Road; AIIC - Australian Inventory of Industrial Chemicals; 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; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the	mixture:	Classification procedure:
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.