

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

thermosept® alka clean forte

No Change Service!

Version
03.04

Revision Date:
16.11.2017

Date of last issue: 28.09.2017
Date of first issue: 14.01.2008

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

1.1 Product identifier

Trade name : thermosept® alka clean forte

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

Use of the Sub-
stance/Mixture : Cleaning agent

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 irritation, Category 2
Eye irritation, Category 2

H315: Causes skin irritation.
H319: Causes serious eye irritation.

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Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

:

P280 Wear protective gloves/ eye protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Special labelling of certain mixtures

:

Labelling according to Regulation (EC) No. 648/2004: (< 5 % anionic surfactants, < 5 % non-ionic surfactants, < 5% Polycarboxylates, < 5 % NTA (nitrilotriacetic acid) and salts thereof,, enzymes)

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.

No special risks known.

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)
Sodim-etasulfate	126-92-1 204-812-8 --- 01-2119971586-23-XXXX	Skin Irrit. 2; H315 Eye Dam. 1; H318	< 5
Trisodiumnitrilotriacetate	5064-31-3 225-768-6 607-620-00-6 01-2119519239-36-	Acute Tox. 4; H302 Eye Irrit. 2; H319 Carc. 2; H351	< 5

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	XXXX		
Sodium cumenesulfonate	15763-76-5 239-854-6 --- 01-2119489411-37-XXXX	Eye Irrit. 2; H319	< 5
Silic acid, potassium salt	1312-76-1 215-199-1 --- 01-2119456888-17-XXXX	Skin Irrit. 2; H315 Eye Irrit. 2; H319	< 5
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	< 2
Alcohols, C13-15-branched and linear, butoxylated ethoxylated	111905-53-4 Polymer --- ---	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	< 1

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 soap and 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 eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.
Drink water as a precaution.
If symptoms persist, call a physician.

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.

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

Suitable extinguishing media : Dry powder
Carbon dioxide (CO₂)
Water spray jet
Foam

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No information available.

Hazardous combustion products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x)

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 : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

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**

Advice on safe handling : Never mix concentrates directly.

Advice on protection against fire and explosion : No special protective measures against fire required.

Hygiene measures : Keep away from food and drink.

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- Requirements for storage areas and containers : Store at room temperature in the original container.
- Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed.
- Advice on common storage : Do not store together with explosive, infectious and radioactive products.

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 hydroxide	1310-58-3	WEL	2 mg/m ³	HSE

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Sodim-etasulfate	Workers	Skin contact	Long-term systemic effects	4060 mg/kg
	Workers	Inhalation	Long-term systemic effects	285 mg/m ³
Trisodiumnitrilotriacetate	Workers	Inhalation	Short-term exposure, Systemic effects, Local effects	5.25 mg/m ³
	Workers	Inhalation	Long-term exposure, Systemic effects, Local effects	3.5 mg/m ³
Sodium cumenesulfonate	Workers	Skin contact	Long-term systemic effects	136.25 mg/kg
	Workers	Skin contact	Long-term local effects	0.096 mg/cm ²
	Workers	Inhalation	Long-term systemic effects	26.9 mg/m ³
Potassium hydroxide	Workers	Inhalation	Long-term local effects	1 mg/m ³

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

Substance name	Environmental Compartment	Value
Sodim-etasulfate	Fresh water	0.1357 mg/l
	Marine water	0.0136 mg/l
	Fresh water sediment	1.5 mg/kg
	Marine sediment	0.15 mg/kg
	Soil	0.22 mg/kg
	Effects on waste water treatment plants	1.35 mg/l

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Trisodiumnitrilotriacetate	Fresh water	0.93 mg/l
	Marine water	0.093 mg/l
	Fresh water sediment	3.64 mg/kg
	Marine sediment	0.364 mg/kg
	Sewage treatment plant	540 mg/l
	Intermittent use/release	0.915 mg/l
	Soil	0.182 mg/kg
Sodium cumenesulfonate	Fresh water	0.23 mg/l
	Marine water	0.023 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0.862 mg/kg
	Marine sediment	0.0862 mg/kg
	Soil	0.037 mg/kg

8.2 Exposure controls

Personal protective equipment

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

Hand protection
Directive : The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC 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. 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 : No personal respiratory protective equipment normally required.

Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : nearly colourless

Odour : characteristic

Odour Threshold : not determined

pH : 12 - 12.8 (20 °C)

Melting point/freezing point : < -5 °C

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Decomposition temperature	Not applicable
Boiling point/boiling range	: ca. 100 °C
Flash point	: > 70 °C Method: DIN 51755 Part 1 Other information: Does not sustain combustion.
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: ca. 1.08 g/cm ³ (20 °C, 1,013 hPa)
Solubility(ies)	
Water solubility	: in all proportions (20 °C)
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Viscosity	
Viscosity, dynamic	: ca. 3 mPa*s Method: ISO 3219
Explosive properties	: Not applicable
Oxidizing properties	: No data available

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.

10.3 Possibility of hazardous reactions

Hazardous reactions : reaction with acids.

10.4 Conditions to avoid

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Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Possible incompatibility with alkali sensitive materials.

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Acute inhalation toxicity : Acute toxicity estimate: > 50 mg/l
Acute dermal toxicity : Acute toxicity estimate: > 15,000 mg/kg

Skin corrosion/irritation

Product:

Causes skin irritation., Calculation method

Serious eye damage/eye irritation

Product:

Causes serious eye irritation., Calculation method

Respiratory or skin sensitisation

Components:

Sodim-etasulfate:

Did not cause sensitisation on laboratory animals.OECD Test Guideline 429

Trisodiumnitrilotriacetate:

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

Sodium cumenesulfonate:

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

Silic acid, potassium salt:

No data available

Potassium hydroxide:

Did not cause sensitisation on laboratory animals.Guinea pig

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

No data available

Germ cell mutagenicity

Components:

Sodim-etasulfate:

Germ cell mutagenicity- Assessment : No data available

Trisodiumnitrilotriacetate:

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

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essment

Sodium cumenesulfonate:

Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation assay), with and without metabolic activation, OECD Test Guideline 471, Not mutagenic in Ames Test

Genotoxicity in vivo : In vivo micronucleus test, Mouse, Oral, Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

assessment

Silic acid, potassium salt:

Germ cell mutagenicity- Assessment : No data available

Potassium hydroxide:

Genotoxicity in vitro : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Germ cell mutagenicity- Assessment : No data available

Carcinogenicity**Components:****Sodium-etasulfate:**

Carcinogenicity - Assessment : No data available

Trisodiumnitrilotriacetate:

Carcinogenicity - Assessment : Limited evidence of a carcinogenic effect.

Sodium cumenesulfonate:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Silic acid, potassium salt:

Carcinogenicity - Assessment : No data available

Potassium hydroxide:

Carcinogenicity - Assessment : No data available

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Carcinogenicity - Assessment : No data available

Reproductive toxicity**Components:****Sodium-etasulfate:**

Reproductive toxicity - Assessment : No data available

Trisodiumnitrilotriacetate:

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

Sodium cumenesulfonate:

Effects on foetal development : Rat, Oral, NOAEL: 3,000 mg/kg, NOAEL: 3,000 mg/kg

Reproductive toxicity - Assessment : study scientifically unjustified

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Reproductive toxicity - Assessment : No data available

Potassium hydroxide:

Reproductive toxicity - Assessment : No data available

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Reproductive toxicity - Assessment : No data available

STOT - single exposure**Components:****Sodium-etasulfate:**

No data available

Trisodiumnitrilotriacetate:

Based on available data, the classification criteria are not met.

Sodium cumenesulfonate:

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

Silic acid, potassium salt:

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

Potassium hydroxide:

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

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

No data available

STOT - repeated exposure**Components:****Sodium-etasulfate:**

No data available

Trisodiumnitrilotriacetate:

Based on available data, the classification criteria are not met.

Sodium cumenesulfonate:

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

Silic acid, potassium salt:

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

Potassium hydroxide:

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

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

No data available

Repeated dose toxicity**Components:****Sodium cumenesulfonate:**

Mouse, NOAEL: 440 mg/kg, LOAEL: 1,300 mg/kg, Dermal, OECD Test Guideline 411, Target Organs: Skin, Subchronic toxicity

Aspiration toxicity

No data available

Further information**Product:**

No data is available on the product itself.

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- Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other : EC50 (Daphnia (water flea)): > 100 mg/l
aquatic invertebrates Exposure time: 48 h
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h

Trisodiumnitritotriacetate:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other : EC50 (Gammarus salinus (seawater shrimp)): 98 mg/l
aquatic invertebrates Exposure time: 96 h
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 91.5 mg/l
Exposure time: 72 h
Method: Directive 67/548/EEC, Annex V, C.3.

Sodium cumenesulfonate:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates Exposure time: 48 h
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h

Silic acid, potassium salt:

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 301 - 478 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other : EC0 (Daphnia magna (Water flea)): > 500 mg/l
aquatic invertebrates Exposure time: 24 h
- Toxicity to algae : Remarks: No data available

Potassium hydroxide:

- Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l
Exposure time: 96 h
Test Type: static test

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Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Toxicity to fish : LC50 (Leuciscus idus): 1 - 10 mg/l
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 : 0.1 - 1 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 : 0.1 - 1 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0.1 - 1 mg/l

12.2 Persistence and degradability

Product:

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

Chemical Oxygen Demand (COD) : ca. 1,523 mg/l
Test substance: 1 % solution

Components:

Sodim-etasulfate:

Biodegradability : Result: Readily biodegradable, according to appropriate OECD test.
Biodegradation: > 60 %
Exposure time: 14 d
Method: OECD 301D / EEC 84/449 C6

Trisodiumnitrilotriacetate:

Biodegradability : Result: Readily biodegradable.

Sodium cumenesulfonate:

Biodegradability : Result: Readily biodegradable.

Silic acid, potassium salt:

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

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

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5**12.3 Bioaccumulative potential****Components:****Sodim-etasulfate:**

Bioaccumulation : Remarks: No data available

Trisodiumnitrilotriacetate:Bioaccumulation : Species: Brachidanio rerio
Exposure time: 96 d
Bioconcentration factor (BCF): < 3
Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Does not significantly accumulate in organisms.**Sodium cumenesulfonate:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Silic acid, potassium salt:

Bioaccumulation : Remarks: completely soluble

Potassium hydroxide:

Bioaccumulation : Remarks: Does not bioaccumulate.

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Bioaccumulation : Remarks: Does not significantly accumulate in organisms.

12.4 Mobility in soil**Components:****Sodim-etasulfate:**

Mobility : Remarks: No data available

Trisodiumnitrilotriacetate:

Mobility : Remarks: Substance does not evaporate from water surface into the atmosphere., Not expected to adsorb on soil.

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Sodium cumenesulfonate:

Mobility : Remarks: Not expected to adsorb on soil.

Silic acid, potassium salt:

Mobility : Remarks: No data available

Potassium hydroxide:

Mobility : Remarks: Mobile in soils

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Mobility : Remarks: Substance does not evaporate from water surface into the atmosphere., Adsorption to solid soil phase is possible.

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

Product:

Additional ecological information : No data is available on the product itself.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of the product according to the defined EWC (European Waste Code) No.

Contaminated packaging : Take empty packaging to the recycling plant.

Waste key for the unused product : European waste catalog (EWC) 070601

Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

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14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

For personal protection see section 8.

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

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

Other regulations:

The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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.

15.2 Chemical safety assessment

Exempt

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H290	: May be corrosive to metals.
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.
H351	: Suspected of causing cancer.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Met. Corr.	: Corrosive to metals
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation

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 Organization 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Further information

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

Skin Irrit. 2, H315 : Calculation method

Eye Irrit. 2, H319 : Calculation method

Changes compared with the previous edition!!!

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