

thermodent® alka clean**No Change Service!**Version
03.02Revision Date:
13.12.2016Date of last issue: 08.09.2016
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 : thermodent® alka clean

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Cleaning agentRecommended 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
Emergency telephone num-
ber : +49 (0)40/ 52100-0

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 2H315: Causes skin irritation.
H319: Causes serious eye irritation.**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

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according to Regulation (EC) No. 1907/2006

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Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H315
H319

Causes skin irritation.
Causes serious eye irritation.

Precautionary statements

: P280

Wear protective gloves/ protective clothing/
eye protection/ face 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% Polycar-
boxylates, < 5 % NTA (nitrilotriacetic acid) and salts thereof,,
enzymes)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumula-
tive 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	Index-Number CAS-No. EC-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	607-620-00-6 5064-31-3 225-768-6 01-2119519239-36- XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319 Carc. 2; H351	< 5

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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	019-002-00-8 1310-58-3 215-181-3 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	- - - 191549-88-9 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.
- 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 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.

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

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

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.

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Specific risk from the substance or the product itself, its combustion products or evolved gases : 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.

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 away from heat. Keep away from direct sunlight. Keep container tightly closed.
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**

none

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

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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/m3
Trisodiumnitrilotriacetate	Workers	Inhalation	Short-term exposure, Systemic effects, Local effects	5.25 mg/m3
	Workers	Inhalation	Long-term exposure, Systemic effects, Local effects	3.5 mg/m3
Sodium cumenesulfonate	Workers	Skin contact	Long-term systemic effects	7.6 mg/kg
	Workers	Inhalation	Long-term systemic effects	53.6 mg/m3

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
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
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	100 mg/l

8.2 Exposure controls

Personal protective equipment

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

Hand protection

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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, concentrate
Melting point/freezing point	: < -5 °C
Decomposition temperature	: Not applicable
Boiling point/boiling range	: ca. 100 °C
Flash point	: > 70 °C, 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
Relative vapour density	: No data available
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, 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.

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10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

reaction with acids

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

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:**

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Germ cell mutagenicity- Assessment	: No data available
Trisodiumnitrilotriacetate:	
Germ cell mutagenicity- Assessment	: Animal testing did not show any mutagenic effects.
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, not mutagenic
Germ cell mutagenicity- Assessment	: Not mutagenic in Ames Test
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:****Sodim-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:****Sodim-etasulfate:**

Reproductive toxicity - Assessment : No data available

Trisodiumnitrilotriacetate:

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

Sodium cumenesulfonate:

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

Reproductive toxicity - Assessment : study scientifically unjustified

Silic acid, potassium salt:

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:****Trisodiumnitrilotriacetate:**

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

STOT - repeated exposure**Components:****Trisodiumnitrilotriacetate:**

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

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

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

Aspiration toxicity

No data available

Further information**Product:**

No data is available on the product itself.

SECTION 12: Ecological information**12.1 Toxicity****Components:****Sodim-etasulfate:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 100 mg/l, 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 mg/l, 72 h

Trisodiumnitrilotriacetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Gammarus salinus (seawater shrimp)): 98 mg/l, 96 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 91.5

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	mg/l, 72 h, Directive 67/548/EEC, Annex V, C.3.
Sodium cumenesulfonate:	
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l, 96 h, literature value
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l, 48 h
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l, 72 h
Silic acid, potassium salt:	
Toxicity to fish	: LC50 (Lepomis macrochirus (Bluegill sunfish)): 301 - 478 mg/l, 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC0 (Daphnia magna (Water flea)): > 500 mg/l, 24 h
Toxicity to algae	: No data available
Potassium hydroxide:	
Toxicity to fish	: LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l, 96 h
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available
Alcohols, C13-15-branched and linear, butoxylated ethoxylated:	
Toxicity to fish	: LC50 (Leuciscus idus): 1 - 10 mg/l, 48 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 : 0.1 - 1 mg/l, 48 h
Toxicity to algae	: EC50 : 0.1 - 1 mg/l, 72 h
Toxicity to fish (Chronic toxicity)	: 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	: Readily biodegradable., OECD 301D / EEC 84/449 C6
Chemical Oxygen Demand (COD)	: ca. 1,523 mg/l ,1 % solution

Components:**Sodim-etasulfate:**

Biodegradability	: Readily biodegradable, according to appropriate OECD test., OECD 301D / EEC 84/449 C6
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Trisodiumnitrilotriacetate:

Biodegradability	: Readily biodegradable.
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Sodium cumenesulfonate:

Biodegradability	: Readily biodegradable.
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Silic acid, potassium salt:

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

Biodegradability	: The methods for determining biodegradability are not applicable to inorganic substances.
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Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Biodegradability	: Readily biodegradable., Biodegradation: > 60 %, Exposure time: 28 d, OECD 301B/ ISO 9439/ EEC 84/449 C5
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Bioaccumulation : No data available

Trisodiumnitrilotriacetate:

Bioaccumulation : Brachidanio rerio, 96 d, Bioconcentration factor (BCF): < 3, No bioaccumulation is to be expected (log Pow <= 4)., Does not significantly accumulate in organisms.

Sodium cumenesulfonate:

Bioaccumulation : Bioaccumulation is unlikely.

Silic acid, potassium salt:

Bioaccumulation : completely soluble

Potassium hydroxide:

Bioaccumulation : Does not bioaccumulate.

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

Bioaccumulation : Does not significantly accumulate in organisms.

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

Mobility : No data available

Trisodiumnitrilotriacetate:

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

Sodium cumenesulfonate:

Mobility : Not expected to adsorb on soil.

Silic acid, potassium salt:

Mobility : No data available

Potassium hydroxide:

Mobility : Mobile in soils

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

Mobility : 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 : none

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.

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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

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

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

Legislation on the control of major-accident hazards involving dangerous substances : Directive 96/82/EC does not apply

Volatile organic compounds : 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.

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Exempt

SECTION 16: Other information**Full text of H-Statements**

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 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

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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 Irrit. 2, H315 : Calculation method
Eye Irrit. 2, H319 : 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.