

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ALPATEC 5663/20

Version 3.0
Revision Date: 23.02.2022

Date of last issue: 07.09.2018
Date of first issue: 08.01.2013

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

1.1 Product identifier

Trade name : ALPATEC 5663/20

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

Use of the Sub-stance/Mixture : Industrial use
Adhesives

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier

CHT Germany GmbH
Bismarckstraße 102
72072 Tübingen
Germany
Tel.: +49 7071 154 0
info@cht.com

CHT Switzerland AG
Kriessernstrasse 20
9462 Montlingen
Switzerland
Tel.: +41 71 763 88 11
info.switzerland@cht.com

Importer : -
-
-
-
-

Responsible Department : CHT Germany GmbH
CHT Switzerland AG
Product Safety
sds.germany@cht.com
sds.switzerland@cht.com

1.4 Emergency telephone number

Emergency telephone number : +1 703 527 3887 CHEMTREC (International, 24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :
H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P233 Keep container tightly closed.

Response:

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.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

Disposal:

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

Hazardous components which must be listed on the label:

Triacetoxymethylsilane

Additional Labelling

EUH208 Contains dimethylbis[(1-oxoneodecyl)oxy]stannane. May produce an allergic reaction.

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.

Ecological information: The substance/mixture does not contain components considered 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.

Toxicological information: The substance/mixture does not contain components considered 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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Condensation-crosslinking silicone polymer

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
quartz (SiO ₂)	14808-60-7 238-878-4	STOT RE 1; H372 (Lungs) specific concentration limit STOT RE 2; H373 70 - < 80 % STOT RE 1; H372 >= 80 %	>= 10 - < 20
Triacetoxyethylsilane	17689-77-9 241-677-4 01-2119881778-15	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 EUH014	>= 3 - < 5
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	556-67-2 209-136-7 014-018-00-1 01-2119529238-36	Flam. Liq. 3; H226 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,025 - < 0,1
dimethylbis[(1- oxoneodecyl)oxy]stannane	68928-76-7 273-028-6 01-2120770324-57	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 3; H412	>= 0,0025 - < 0,025

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.

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Show this safety data sheet to the doctor in attendance.

- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : In case of skin contact remove mechanically with cloth or paper.
Wash off immediately with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : There may be reddening, swelling, overheating and pain on contact.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.
-

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Dry powder
Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Silica

5.3 Advice for firefighters

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

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Further information : In case of fire do not inhale smoke, conflagration gases and steams.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.
Pay attention to local or official regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Dispose of in accordance with local regulations.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Keep away from heat and sources of ignition.

Hygiene measures : Avoid contact with skin, eyes and clothing. Do not breathe vapours, aerosols. Take off all contaminated clothing immediately. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Do always store in containers which correspond to the original ones. Keep container tightly closed. Keep in a dry, cool place.

Further information on storage conditions : Protect from frost. Protect from humidity and keep away from water.

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Advice on common storage : Incompatible with acids and bases.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Triacetoxyethylsilane	Workers	Inhalation	Long-term systemic effects	80,33 mg/m ³
	Workers	Inhalation	Long-term local effects	32,5 mg/m ³
	Workers	Inhalation	Acute local effects	32,5 mg/m ³
	Workers	Skin contact	Long-term systemic effects	11,39 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	19,81 mg/m ³
	Consumers	Inhalation	Long-term local effects	6,5 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	5,7 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	5,7 mg/kg bw/day
octamethylcyclotetra-siloxane (REACH SVHC Candidate List)	Workers	Inhalation	Long-term systemic effects	73 mg/m ³
	Workers	Inhalation	Long-term local effects	73 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	13 mg/m ³
	Consumers	Inhalation	Long-term local effects	13 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	3,7 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Triacetoxyethylsilane	Fresh water	0,023 mg/l
	Marine water	0,0023 mg/l
	Intermittent use/release	1,7 mg/l
	STP	10,637 mg/l
	Fresh water sediment	0,023 mg/kg dry weight (d.w.)
	Marine sediment	0,0023 mg/kg dry

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		weight (d.w.)
	Soil	0,0064 mg/kg dry weight (d.w.)
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	Fresh water	1,5 µg/l
	Marine water	0,15 µg/l
	STP	10 mg/l
	Fresh water sediment	3 mg/kg dry weight (d.w.)
	Marine sediment	0,3 mg/kg dry weight (d.w.)
	Soil	0,54 mg/kg dry weight (d.w.)
	Secondary Poisoning	41 mg/kg food

8.2 Exposure controls

Engineering measures

Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form.

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eye protection : Goggles (EN 166)

Hand protection

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : > 0,5 mm
Protective index : Class 6

Remarks : The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin and body protection : Wear suitable protective clothing (EN 14605).

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Recommended Filter type:
Combination filter A/P (EN 141)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Physical state	:	liquid
Colour	:	black
Odour	:	vinegar-like
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	> 100 °C
pH	:	Not applicable substance/mixture is non-soluble (in water)
Viscosity		
Viscosity, dynamic	:	8 500 mPa.s Brookfield LVT
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Vapour pressure	:	No data available
Density	:	1,10 g/cm ³ (20 °C)
Relative vapour density	:	Not applicable

9.2 Other information

Oxidizing properties	:	Not applicable
Self-ignition	:	not auto-flammable
Evaporation rate	:	Not applicable
Conductivity	:	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

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10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Protect from moisture.

10.5 Incompatible materials

Materials to avoid : Acids
Bases

10.6 Hazardous decomposition products

During processing in contact with atmospheric moisture or with water small quantities of are formed:
Acetic acid

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2 000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Components:

Triacetoxyethylsilane:

Acute oral toxicity : LD50 (Rat): 1 460 mg/kg
Method: OECD Test Guideline 401

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 (Rat, male): 4 800 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 36 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

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Acute dermal toxicity : LD50 (Rat): > 2 375 mg/kg
Method: OECD Test Guideline 402

dimethylbis(1-oxoneodecyl)oxy]stannane:

Acute oral toxicity : LD50 (Rat): > 300 - 2 000 mg/kg
Method: OECD Test Guideline 401

Skin corrosion/irritation

Product:

Remarks : Causes skin irritation.

Components:

Triacetoxethylsilane:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Causes burns.

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Species : Rat
Method : OECD Test Guideline 404
Result : No skin irritation

dimethylbis(1-oxoneodecyl)oxy]stannane:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 439
Result : Causes skin irritation.

Serious eye damage/eye irritation

Product:

Remarks : Causes serious eye damage.

Components:

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

dimethylbis(1-oxoneodecyl)oxy]stannane:

Species : Cattle
Method : OECD Test Guideline 437
Result : No eye irritation

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Respiratory or skin sensitisation

Product:

Remarks : May produce an allergic reaction.

Components:

Triacetoxylethylsilane :

Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

dimethylbis(1-oxoneodecyl)oxy]stannane :

Species : Guinea pig
Result : The product is a skin sensitiser, sub-category 1A.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

Components:

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Reproductive toxicity - Assessment : Suspected of damaging fertility., toxic effect on reproduction, category 2

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STOT - single exposure

Product:

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

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

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

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered 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.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data is available on the product itself.

Toxicity to algae/aquatic plants : Remarks: No data is available on the product itself.

Toxicity to microorganisms : Remarks: No data is available on the product itself.

Components:

Triacetoxymethylsilane:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 251 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 168,7 mg/l
Exposure time: 48 h
Test Type: static test
Method: Regulation (EC) No. 440/2008, Annex, C.2
- Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 18 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- EC50 (Pseudokirchneriella subcapitata (green algae)): > 1 000 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- Toxicity to microorganisms : (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : > 100 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Argument by analogy
- octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,022 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,015 mg/l
Exposure time: 48 h
Test Type: flow-through test
- Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (algae)): >= 0,022 mg/l
Exposure time: 96 h
- EC50 (Pseudokirchneriella subcapitata (algae)): > 0,022 mg/l
Exposure time: 96 h
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to microorganisms : EC50 (activated sludge): > 10 000 mg/l
Exposure time: 3 h
Test Type: static test
Method: ISO 8192

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Toxicity to fish (Chronic toxicity) : NOEC: $\geq 0,0044$ mg/l
Exposure time: 93 d
Species: *Oncorhynchus mykiss* (rainbow trout)
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: $> 0,0015$ mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test Type: flow-through test

M-Factor (Chronic aquatic toxicity) : 10

dimethylbis[(1-oxoneodecyl)oxy]stannane:

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): $> 10 - 100$ mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data is available on the product itself.
Physico-chemical removability : Remarks: The product is insoluble and sinks in water. May be separated mechanically in waste water plants.

Components:

Triacetoxymethylsilane:

Biodegradability : Test Type: O₂ measuring
Result: Readily biodegradable.
Biodegradation: 79,5 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Argument by analogy

dimethylbis[(1-oxoneodecyl)oxy]stannane:

Biodegradability : Test Type: CO₂ measuring
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD 301 B (mineralisation)

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data is available on the product itself.

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Components:

Triacetoxymethylsilane:

Partition coefficient: n-octanol/water : log Pow: 0,74

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Partition coefficient: n-octanol/water : log Pow: 6,98 (21,7 °C)

dimethylbis[(1-oxoneodecyl)oxy]stannane:

Partition coefficient: n-octanol/water : log Pow: 5,503

12.4 Mobility in soil

Product:

Mobility : Remarks: 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..

Components:

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Assessment : This substance is considered to be persistent, bioaccumulating and toxic (PBT)..
: This substance is considered to be very persistent and very bioaccumulating (vPvB)..

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered 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.

12.7 Other adverse effects

Product:

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Additional ecological information : According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC.
The product is insoluble in water, therefore the ecological data such as, e.g. biodegradability, COD, BOD5 values cannot be determined analytically.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Pay attention to local or official regulations.

Contaminated packaging : Pay attention to local or official regulations.

SECTION 14: Transport information

14.1 UN number or ID 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

Remarks : see chapter 6 - 8

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable

SECTION 15: Regulatory information

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

Other regulations:

National and local regulations must be observed.

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15.2 Chemical safety assessment

not required

SECTION 16: Other information

Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H361f	: Suspected of damaging fertility.
H372	: Causes damage to organs through prolonged or repeated exposure if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
EUH014	: Reacts violently with water.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated 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; AIIIC - 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; IECS - 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)

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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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Based on the information in the safety data sheet and the workplace conditions, employees must be regularly trained in the safe handling of the product. National rules for training employees in handling hazardous substances must be observed.

Other information : The classification for dangerous physico-chemical properties, health and environmental hazards has been derived from a combination of computational methods and, if available, test data.

This data sheet contains changes from the previous version in section(s):

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Sources of key data used to compile the Safety Data Sheet : Information from our suppliers, as well as data from the "Registered substances database" of the European Chemicals Agency (ECHA) has been used to compile this safety data sheet.

Classification of the mixture:

Skin Irrit. 2	H315
Eye Dam. 1	H318
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method
Calculation method

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

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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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