

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **1643 Activator**

Creation date: **13.12.2006** · Revision: **27.6.2018** · Version: **1**

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name

**1643 Activator**

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

Relevant identified uses

Solvent-based activator for cyanoacrylate adhesives.

Uses advised against

No information.

### 1.3. Details of the supplier of the safety data sheet

Manufacturer

SILCO, D.O.O.

Address: Šentrupert 5 a, 3303 Gomilsko, Slovenia

Phone: +386 3 703 3180

Fax: +386 3 703 3188

E-mail: n.cvilak@silco-automotive.com

Point of contact for safety info: Nejc Cvilak

### 1.4. Emergency telephone number

Emergency

112

Supplier

+386 3 703 3180



chemius.net/81Bf8

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222 Extremely flammable aerosol.

Aerosol 1; H229 Pressurised container: May burst if heated.

Skin Irrit. 2; H315 Causes skin irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

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## 2.2 Label elements

### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Danger**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 2.2.2. Contains:

n-hexane (CAS: 110-54-3, EC: 203-777-6, Index: 601-037-00-0)

isopentane (CAS: 78-78-4, EC: 201-142-8, Index: 601-085-00-2)

### 2.2.3. Special provisions

Special hazards are not known or expected.

## 2.3. Other hazards

No information.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

For mixtures see 3.2.

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## 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
naphtha (petroleum), hydrotreated light <sup>[P]</sup>	64742-49-0 265-151-9 649-328-00-1	60	Flam. Liq. 1; H224 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Aquatic Chronic 2; H411		-
butane <sup>[C]</sup>	106-97-8 203-448-7 601-004-00-0	16,5	Flam. Gas 1; H220 Press. Gas; H280		-
propane	74-98-6 200-827-9 601-003-00-5	16,5	Flam. Gas 1; H220 Press. Gas; H280		-
isobutane <sup>[C, S]</sup>	75-28-5 200-857-2 601-004-00-0	4	Flam. Gas 1; H220 Press. Gas; H280		-
n-hexane	110-54-3 203-777-6 601-037-00-0	2	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361f STOT RE 2; H373 Aquatic Chronic 2; H411	STOT RE 2; H373: C ≥ 5 %	-
isopentane	78-78-4 201-142-8 601-085-00-2	0,5	Flam. Liq. 1; H224 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411 EUH066		-
N,N-dimethyl-p-toluidine <sup>[C]</sup>	99-97-8 202-805-4 612-056-00-9	0,5	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 STOT RE 2; H373 Aquatic Chronic 3; H412		-

### Notes for substances:

<b>C</b>	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.  In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
<b>P</b>	The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).  When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply.  This note applies only to certain complex oil-derived substances in Part 3.
<b>S</b>	This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3.1).  This substance may not require a label according to Article 23 of Directive 67/548/EEC (see section 8 of Annex VI to that Directive) (Table 3.2).

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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## Following inhalation

Remove patient to fresh air - move out of dangerous area. If breathing is difficult, give oxygen. Obtain professional medical help!

## Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

## Following eye contact

Immediately flush eyes with plenty of water while keeping eyelids apart (at least 15 minutes). Seek medical help.

## Following ingestion

Do not induce vomiting! Consult a physician. Show the physician the safety data sheet or label.

### **4.2. Most important symptoms and effects, both acute and delayed**

#### Inhalation

Vapours may cause drowsiness and dizziness.

#### Skin contact

Itching, redness, pain.

Repeated or prolonged contact with the product may lead to removal of natural fats from the skin and non-allergic contact dermatitis.

#### Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

#### Ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

May cause nausea/vomiting and diarrhea.

May cause abdominal discomfort.

### **4.3. Indication of any immediate medical attention and special treatment needed**

-

## **SECTION 5. FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Alcohol-resistant foam.

Fire extinguishing powder.

Carbon dioxide (CO<sub>2</sub>).

Sand. Earth.

#### Unsuitable extinguishing media

Water. Full water jet.

### **5.2. Special hazards arising from the substance or mixture**

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

Nitrogen oxides (NO<sub>x</sub>).

### **5.3. Advice for firefighters**

#### Protective actions

In case of fire or heating do not breathe fumes/vapours. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area.

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## Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

## Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Emergency procedures**

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Do not use open fire and keep away all sources of ignition. Evacuate the danger zone. Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Area of accident must be marked and protected.

#### 6.1.2. For emergency responders

-

### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

### 6.3. Methods and material for containment and cleaning up

#### 6.3.1. For containment

-

#### 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use spark-proof tools.

#### 6.3.3. Other information

-

### 6.4. Reference to other sections

See also Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material. Vapours and air form explosive mixtures. Use spark-proof tools.

##### **Measures to prevent aerosol and dust generation**

-

##### **Measures to protect the environment**

-

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## 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist.

## **7.2. Conditions for safe storage, including any incompatibilities**

### 7.2.1. Technical measures and storage conditions

Keep in tightly closed container. Keep in cool and well ventilated area. Keep away from heat and sources of ignition. Protect from direct sunlight.

### 7.2.2. Packaging materials

-

### 7.2.3. Requirements for storage rooms and vessels

Keep only in original container.

### 7.2.4. Storage class

-

### 7.2.5. Further information on storage conditions

-

## **7.3. Specific end use(s)**

### **Recommendations**

-

### **Industrial sector specific solutions**

-

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

#### 8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>		
Butane (106-97-8)	600	1450	750	1810	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
n-Hexane (110-54-3)	20	72	-	-		
Isopentane (78-78-4)	600	1800	-	-		

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

#### 8.1.3. DNEL/DMEL values

No information.

#### 8.1.4. PNEC values

No information.

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## 8.2. Exposure controls

### 8.2.1. Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Do not eat, drink or smoke while working.

#### Organisational measures to prevent exposure

Keep eyewash bottles or personal eyewash units available.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

### 8.2.2. Personal protective equipment

#### Eye and face protection

Safety glasses with side protection (EN 166).

#### Hand protection

Protective gloves (EN 374).

#### Appropriate materials

Material	Thickness	Penetration Time	Remark
Butyl rubber			

#### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Protective masks (EN 136) or half masks (EN 140) with filter A (EN 14387).

#### Thermal hazards

-

### 8.2.3. Environmental exposure controls

-

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

-	Physical state:	liquid; aerosol
-	Colour:	colourless
-	Odour:	like paraffin

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## Important health, safety and environmental information

-	pH	No information.
-	Melting point/freezing point	No information.
-	Initial boiling point/boiling range	ca. -40 °C
-	Flash point	-40 °C
-	Evaporation rate	No information.
-	Flammability (solid, gas)	No information.
-	Explosion limits (vol%)	1 – 9,5 vol %
-	Vapour pressure	No information.
-	Vapour density	No information.
-	Density	<b>Relative density:</b> 0,71
-	Solubility	<b>Water:</b> Insoluble <b>Organic solvent:</b> Soluble
-	Partition coefficient	<b>Octanol-water (log Pow):</b> ca. 3,7
-	Auto-ignition temperature	410 °C
-	Decomposition temperature	No information.
-	Viscosity	<b>kinematic:</b> 1 mm <sup>2</sup> /s at 40 °C (ISO 3104/3105)
-	Explosive properties	No information.
-	Oxidising properties	Not oxidising.

## 9.2. Other information

-	Remarks:	
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

### 10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

### 10.5. Incompatible materials

Strong oxidising agents.

### 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide.  
Nitrogen oxides.



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## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
n-hexane (110-54-3)	IPR	LDLo	rat		9100 mg/kg		
n-hexane (110-54-3)	INV	LDLo	mouse		831 mg/kg		
n-hexane (110-54-3)	oral	LD <sub>50</sub>	rat		25 mg/kg		
N,N-dimethyl-p-toluidine (99-97-8)	IPR	LD <sub>50</sub>	mouse		212 mg/kg		

#### (b) Skin corrosion/irritation

**Additional information:** Causes skin irritation.

#### (c) Serious eye damage/irritation

No information.

#### (d) Respiratory or skin sensitisation

No information.

#### (e) (Germ cell) mutagenicity

No information.

#### (f) Carcinogenicity

No information.

#### (g) Reproductive toxicity

No information.

#### Summary of evaluation of the CMR properties

No information.

#### (h) STOT-single exposure

**Additional information:** May cause drowsiness or dizziness.

#### (i) STOT-repeated exposure

No information.

#### (j) Aspiration hazard

No information.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Acute (short-term) toxicity

No information.

#### 12.1.2. Chronic (long-term) toxicity

No information.

### 12.2. Persistence and degradability

#### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

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## 12.2.2. Biodegradation

No information.

## **12.3. Bioaccumulative potential**

### 12.3.1. Partition coefficient

**For product**

Media	Value	Temperature	pH	Concentration	Method
Octanol-water (log Pow)	ca. 3,7				

### 12.3.2. Bioconcentration factor (BCF)

No information.

### Additional information

Danger of bioaccumulation.

## **12.4. Mobility in soil**

### 12.4.1. Known or predicted distribution to environmental compartments

No information.

### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

No information.

## **12.5. Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## **12.6. Other adverse effects**

No information.

## **12.7. Additional information**

**For product**

Do not allow to reach ground water, water courses or sewage system.

Toxic to aquatic organisms: may cause long-term adverse effects in the aquatic environment.

Product is readily biodegradable.

Photodegradable.

Floats on water.

Volatile.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

#### 13.1.1. Product / Packaging disposal

**Waste chemical**

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

**Packaging**

Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Deliver completely emptied containers to approved waste disposal authorities.

#### 13.1.2. Waste treatment-relevant information

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#### 13.1.3. Sewage disposal-relevant information

-

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## 13.1.4. Other disposal recommendations

-

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

UN 1950

### 14.2. UN proper shipping name

AEROSOLS

IMDG name: AEROSOLS (naphtha (petroleum), hydrotreated light )

### 14.3. Transport hazard class(es)

2

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Additional labeling: ENVIRONMENTALLY HAZARDOUS

IMDG: MARINE POLLUTANT

### 14.6. Special precautions for user

#### Limited quantities

1 L

#### Tunnel restriction code

(D)

#### IMDG flashpoint

-40 °C, c.c.

#### IMDG EmS

F-D, S-U

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Goods may not be carried in bulk in bulk containers, containers or vehicles.



## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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## SECTION 16. OTHER INFORMATION

### Indication of changes

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### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)

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PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

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## List of relevant H phrases

H220 Extremely flammable gas.  
H224 Extremely flammable liquid and vapour.  
H225 Highly flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H301 Toxic if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H311 Toxic in contact with skin.  
H315 Causes skin irritation.  
H331 Toxic if inhaled.  
H336 May cause drowsiness or dizziness.  
H361f Suspected of damaging fertility.  
H373 May cause damage to organs through prolonged or repeated exposure .  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

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