



A Group Company of MITSUBISHI CHEMICAL

**ZIRCONIUM n-PROPOXIDE, 70% in n-propanol**

Safety Data Sheet AKZ975

Issue date: 30/12/2014

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Version: 2.1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form	: Mixture
Physical state	: Liquid
Product name	: ZIRCONIUM n-PROPOXIDE, 70% in n-propanol
Product code	: AKZ975
Formula	: C <sub>12</sub> H <sub>28</sub> O <sub>4</sub> Zr
Synonyms	: ZIRCONIUM PROPYLATE TETRAPROPYL ZIRCONATE
Chemical family	: METAL ALKOXIDE

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/mixture : Chemical intermediate

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet****GELEST, INC.**11 East Steel Road  
Morrisville, PA 19067**USA**

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

[info@gelest.com](mailto:info@gelest.com) - [www.gelest.com](http://www.gelest.com)**GELEST INC.**Fritz-Klatte-Strasse 8  
65933 Frankfurt**Germany**

T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM

[info@gelestde.com](mailto:info@gelestde.com) - [www.gelest.com](http://www.gelest.com)**1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flammable liquids, Category 3	H226
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Full text of H- and EUH-statements: see section 16	

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS02

GHS05

GHS07

Signal word (CLP) : Danger

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Hazardous ingredients	: n-Propanol
Hazard statements (CLP)	: H226 - Flammable liquid and vapour. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection. P261 - Avoid breathing vapours. P240 - Ground/bond container and receiving equipment. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P310 - Immediately call a POISON CENTER or doctor.

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Other hazards which do not result in classification : Material may form zirconium oxides or zirconate polymers on the skin, eyes or in the lungs. Prolonged exposure to zirconium compounds can induce formation of granulomatous lesions in the lungs or on the skin.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zirconium n-propoxide	(CAS-No.) 23519-77-9 (EC-No.) 245-711-9	70	Eye Irrit. 2, H319
n-Propanol	(CAS-No.) 71-23-8 (EC-No.) 200-746-9 (EC Index-No.) 603-003-00-0	30	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of water/.... Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Symptoms/effects after inhalation	: May cause drowsiness or dizziness. May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: Do not use straight streams.

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

Fire hazard	: Flammable liquid and vapour. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
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### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist.

## SECTION 6: Accidental release measures

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

- General measures : Eliminate ignition sources. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear protective equipment as described in Section 8.  
Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

- Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Use only non-sparking tools.

### 6.4. Reference to other sections

- See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

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

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.  
Storage conditions : Keep container tightly closed. Keep in a cool place. Store locked up.  
Incompatible materials : Water.  
Storage area : Store in a well-ventilated place. Store away from heat.

### 7.3. Specific end use(s)

- No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Zirconium n-propoxide (23519-77-9)		
USA OSHA	OSHA PEL TWA [1]	5 mg/m <sup>3</sup> (Zirconium)
n-Propanol (71-23-8)		
Austria	MAK (OEL TWA)	500 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) [ppm]	200 ppm
Belgium	OEL TWA	250 mg/m <sup>3</sup>
Belgium	OEL TWA [ppm]	100 ppm
Bulgaria	OEL TWA	300 mg/m <sup>3</sup>
Bulgaria	OEL STEL	500 mg/m <sup>3</sup>
France	VME (OEL TWA)	500 mg/m <sup>3</sup>
France	VME (OEL TWA) [ppm]	200 ppm
Greece	OEL TWA	500 mg/m <sup>3</sup>
Greece	OEL TWA [ppm]	200 ppm
Greece	OEL STEL	625 mg/m <sup>3</sup>

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n-Propanol (71-23-8)		
Greece	OEL STEL [ppm]	250 ppm
Italy - Portugal - USA ACGIH	ACGIH OEL TWA [ppm]	100 ppm
Latvia	OEL TWA	10 mg/m <sup>3</sup>
USA IDLH	IDLH [ppm]	800 ppm
USA NIOSH	NIOSH REL TWA	500 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	200 ppm
USA NIOSH	NIOSH REL STEL	625 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL STEL [ppm]	250 ppm
USA OSHA	OSHA PEL TWA [1]	500 mg/m <sup>3</sup>
USA OSHA	OSHA PEL TWA [2]	200 ppm
Spain	VLA-ED (OEL TWA) [1]	500 mg/m <sup>3</sup> (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)
Spain	VLA-ED (OEL TWA) [2]	200 ppm (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)
Spain	VLA-EC (OEL STEL)	1000 mg/m <sup>3</sup>
Spain	VLA-EC (OEL STEL) [ppm]	400 ppm
Switzerland	MAK (OEL TWA) [1]	500 mg/m <sup>3</sup>
Switzerland	MAK (OEL TWA) [2]	200 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	500 mg/m <sup>3</sup>
United Kingdom	WEL TWA (OEL TWA) [2]	200 ppm
United Kingdom	WEL STEL (OEL STEL)	625 mg/m <sup>3</sup>
United Kingdom	WEL STEL (OEL STEL) [ppm]	250 ppm
Czech Republic	PEL (OEL TWA)	500 mg/m <sup>3</sup>
Denmark	OEL TWA [1]	500 mg/m <sup>3</sup>
Denmark	OEL TWA [2]	200 ppm
Finland	HTP (OEL TWA) [1]	500 mg/m <sup>3</sup>
Finland	HTP (OEL TWA) [2]	200 ppm
Finland	HTP (OEL STEL)	620 mg/m <sup>3</sup>
Finland	HTP (OEL STEL) [ppm]	250 ppm
Ireland	OEL TWA [2]	100 ppm
Ireland	OEL STEL [ppm]	300 ppm (calculated)
Norway	Grenseverdi (OEL TWA) [1]	245 mg/m <sup>3</sup>
Norway	Grenseverdi (OEL TWA) [2]	100 ppm
Norway	Korttidsverdi (OEL STEL)	245 mg/m <sup>3</sup>
Norway	Korttidsverdi (OEL STEL) [ppm]	100 ppm
Poland	NDS (OEL TWA)	200 mg/m <sup>3</sup>
Poland	NDSch (OEL STEL)	600 mg/m <sup>3</sup>
Romania	OEL TWA	200 mg/m <sup>3</sup>
Romania	OEL TWA [ppm]	81 ppm
Romania	OEL STEL	500 mg/m <sup>3</sup>
Romania	OEL STEL [ppm]	203 ppm
Sweden	NGV (OEL TWA)	350 mg/m <sup>3</sup>
Sweden	NGV (OEL TWA) [ppm]	150 ppm
Sweden	KTV (OEL STEL)	600 mg/m <sup>3</sup>
Sweden	KTV (OEL STEL) [ppm]	250 ppm
Canada (Quebec)	VECD (OEL STEL)	614 mg/m <sup>3</sup>
Canada (Quebec)	VECD (OEL STEL) [ppm]	250 ppm
Canada (Quebec)	VEMP (OEL TWA)	492 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (OEL TWA) [ppm]	200 ppm
Australia	OES TWA [1]	492 mg/m <sup>3</sup>
Australia	OES TWA [2]	200 ppm

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n-Propanol (71-23-8)		
Australia	OES STEL	614 mg/m <sup>3</sup>
Australia	OES STEL [ppm]	250 ppm
Portugal	OEL TWA [ppm]	200 ppm
Portugal	OEL STEL [ppm]	400 ppm
Portugal	OEL chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

#### Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Hand protection:

Neoprene or nitrile rubber gloves

#### Eye protection:

Chemical goggles. Contact lenses should not be worn

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Clear liquid.
Molecular mass	: 327.56 g/mol
Colour	: Light. Amber.
Odour	: characteristic.
Odour threshold	: No data available
Refractive index	: 1.457
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 208 °C @ 0.1 mm Hg
Flash point	: 23 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Flammable liquid and vapour.
Vapour pressure	: 15 mm Hg @ 25°C
Relative vapour density at 20 °C	: 2.1 (n-propanol)
Relative density	: 1.05
% Volatiles	: > 30 %
Solubility	: Reacts with water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: 60 – 90 cSt
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 2.2 – 13.7 vol % (lower; upper; n-propanol)

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### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Material decomposes slowly in contact with water.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Water.

### 10.6. Hazardous decomposition products

Organic acid vapors. Zirconium oxide fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### n-Propanol (71-23-8)

LD50 oral rat	1870 mg/kg
LD50 dermal rabbit	4049 mg/kg
LC50 Inhalation - Rat [ppm]	> 13548 ppm/4h
ATE CLP (oral)	1870 mg/kg bodyweight
ATE CLP (dermal)	4049 mg/kg bodyweight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause drowsiness or dizziness. May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### n-Propanol (71-23-8)

LC50 - Fish [1]	4480 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	3642 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	3339 – 3977 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential



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### n-Propanol (71-23-8)

Partition coefficient n-octanol/water (Log Pow) 0.25 – 0.34

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

Other adverse effects : May be hazardous to aquatic life if released to open waters.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility..  
Additional information : Handle empty containers with care because residual vapours are flammable.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### 14.1. UN number

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number

UN-No. (ADR) : 1274  
UN-No. (IMDG) : 1274  
UN-No. (IATA) : 1274  
UN-No. (ADN) : 1274  
UN-No. (RID) : 1274

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : N-PROPANOL (PROPYL ALCOHOL, NORMAL)  
Proper Shipping Name (IMDG) : n-PROPANOL (PROPYL ALCOHOL, NORMAL)  
Proper Shipping Name (IATA) : n-Propanol  
Proper Shipping Name (ADN) : n-PROPANOL (PROPYL ALCOHOL, NORMAL)  
Proper Shipping Name (RID) : n-PROPANOL (PROPYL ALCOHOL, NORMAL)  
Transport document description (ADR) : UN 1274 N-PROPANOL (PROPYL ALCOHOL, NORMAL) (ZIRCONIUM n-PROPOXIDE, 70% in n-propanol), 3, III, (D/E)  
Transport document description (IMDG) : UN 1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL) (ZIRCONIUM n-PROPOXIDE, 70% in n-propanol), 3, III (23°C c.c.)  
Transport document description (IATA) : UN 1274 n-Propanol (ZIRCONIUM n-PROPOXIDE, 70% in n-propanol), 3, III  
Transport document description (ADN) : UN 1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL) (ZIRCONIUM n-PROPOXIDE, 70% in n-propanol), 3, III  
Transport document description (RID) : UN 1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL) (ZIRCONIUM n-PROPOXIDE, 70% in n-propanol), 3, III

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : 3  
Danger labels (ADR) : 3



##### IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3

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### IATA

Transport hazard class(es) (IATA) : 3

Danger labels (IATA) : 3



### ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3



### RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



#### 14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

#### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

##### - Overland transport

Classification code (ADR) : F1

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T2

Portable tank and bulk container special provisions (ADR) : TP1

Tank code (ADR) : LGBF

Vehicle for tank carriage : FL



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Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Special provisions for carriage - Operation (ADR) : S2  
Hazard identification number (Kemler No.) : 30  
Orange plates :

**30**  
**1274**

Tunnel restriction code (ADR) : D/E

### - Transport by sea

Special provisions (IMDG) : 223  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T2  
Tank special provisions (IMDG) : TP1  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-D  
Stowage category (IMDG) : A  
Flash point (IMDG) : 23°C to 26°C c.c.  
Properties and observations (IMDG) : Colourless liquid. Explosive limits: 2% to 12% Flashpoint: 23°C to 26°C c.c. Miscible with water.

### - Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y344  
PCA limited quantity max net quantity (IATA) : 10L  
PCA packing instructions (IATA) : 355  
PCA max net quantity (IATA) : 60L  
CAO packing instructions (IATA) : 366  
CAO max net quantity (IATA) : 220L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3L

### - Inland waterway transport

Classification code (ADN) : F1  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 0

### - Rail transport

Classification code (RID) : F1  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T2  
Portable tank and bulk container special provisions (RID) : TP1  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12

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Colis express (express parcels) (RID) : CE4  
Hazard identification number (RID) : 30

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no REACH Annex XIV substances

% Volatiles : > 30 %

#### 15.1.2. National regulations

##### Germany

Regulatory reference : Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226;H318;H336>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information : Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
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Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

SDS EU (REACH Annex II) - Custom

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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