

**1,2-BIS(TRIMETHYLSILOXY)ETHANE**

Safety Data Sheet SIB1840.0

Date of issue: 30/07/2018 Version: 1.0

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

|                 |                                                                                                                                                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product form    | : Substance                                                                                                                                                                                                                            |
| Physical state  | : Liquid                                                                                                                                                                                                                               |
| Substance name  | : 1,2-BIS(TRIMETHYLSILOXY)ETHANE                                                                                                                                                                                                       |
| Product code    | : SIB1840.0                                                                                                                                                                                                                            |
| Formula         | : C <sub>8</sub> H <sub>22</sub> O <sub>2</sub> Si <sub>2</sub>                                                                                                                                                                        |
| Synonyms        | : 1,2-ETHANEDIOL BIS(TRIMETHYLSILYL) ETHER<br>ETHYLENE GLYCOL BIS(TRIMETHYLSILYL) ETHER<br>ETHYLENE GLYCOL BIS(TRIMETHYLSILYL ETHER)<br>2,2,7,7-TETRAMETHYL-3,6-DIOXA-2,7-DISILAOCTANE<br>TRIMETHYL(2-(TRIMETHYLSILYLOXY)ETHOXY)SILANE |
| Chemical family | : GLYCOL ESTER                                                                                                                                                                                                                         |

**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.gelestde.com](http://www.gelestde.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 |
| Skin corrosion/irritation, Category 2         | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Full text of H 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) :



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|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word (CLP)              | : Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hazard statements (CLP)        | : H226 - Flammable liquid and vapour.<br>H315 - Causes skin irritation.<br>H319 - Causes serious eye irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Precautionary statements (CLP) | : P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P240 - Ground and bond container and receiving equipment.<br>P264 - Wash hands thoroughly after handling.<br>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

|                |                                  |
|----------------|----------------------------------|
| Substance type | : Mono-constituent               |
| Name           | : 1,2-BIS(TRIMETHYLSILOXY)ETHANE |
| CAS-No.        | : 7381-30-8                      |
| EC-No.         | : 230-950-3                      |

| Name                           | Product identifier                        | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------|-------------------------------------------|----------|-----------------------------------------------------------------|
| 1,2-Bis(trimethylsiloxy)ethane | (CAS-No.) 7381-30-8<br>(EC-No.) 230-950-3 | 95 - 100 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## 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 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. Water fog. 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. |
| Explosion hazard | : May form flammable/explosive vapour-air mixture.                                                                                                   |

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### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
- 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 Heading 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent formation of vapour. Take precautionary measures against static discharge. Use only non-sparking tools.
- Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 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.
- Incompatible materials : Alkalis. Acids. Oxidizing agent.
- 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

- No additional information available

### 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:

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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                             | : 206.43 g/mol                 |
| Colour                                     | : No data available            |
| Odour                                      | : No data available            |
| Odour threshold                            | : No data available            |
| Refractive index                           | : 1.4036                       |
| pH                                         | : No data available            |
| Relative evaporation rate (butylacetate=1) | : < 1                          |
| Melting point                              | : < 0 °C                       |
| Freezing point                             | : No data available            |
| Boiling point                              | : 165 - 166 °C                 |
| Flash point                                | : 46 °C                        |
| Auto-ignition temperature                  | : No data available            |
| Decomposition temperature                  | : No data available            |
| Flammability (solid, gas)                  | : Flammable liquid and vapour. |
| Vapour pressure                            | : 25 mm Hg @ 70°C              |
| Relative vapour density at 20 °C           | : > 1                          |
| Relative density                           | : 0.842                        |
| % Volatiles                                | : > 95 %                       |
| Solubility                                 | : Insoluble in water.          |
| Log Pow                                    | : No data available            |
| Log Kow                                    | : No data available            |
| Viscosity, kinematic                       | : No data available            |
| Viscosity, dynamic                         | : No data available            |
| Explosive properties                       | : No data available            |
| Oxidising properties                       | : No data available            |
| Explosive limits                           | : No data available            |

### 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 in sealed containers under dry inert atmosphere.

### 10.3. Possibility of hazardous reactions

The product can generate ethene glycol when exposed to protic materials such as water and alcohol.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Alkalis. Acids. Oxidizing agent.

### 10.6. Hazardous decomposition products

Carbon monoxide. Ethylene glycol. Organic acid vapors. Silicon dioxide.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                                      | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Skin corrosion/irritation                           | : Causes skin irritation.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Serious eye damage/irritation                       | : Causes serious eye irritation.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Respiratory or skin sensitisation                   | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Germ cell mutagenicity                              | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Carcinogenicity                                     | : Not classified<br>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                                | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| STOT-repeated exposure                              | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Aspiration hazard                                   | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Potential adverse human health effects and symptoms | : Note: This material hydrolyzes slowly on contact with water and moisture in living tissues, liberating ethylene glycol. (Ethylene glycol Toxicity- oral rat, LD50: 4700mg/kg). Note: The hydrolysis product of this product is ethylene glycol. If ingested or inhaled can cause general anesthesia, headache, cough, nausea, vomiting, pulmonary, kidney and liver changes. An experimental teratogen. Other experimental reproductive effects. |
| Symptoms/effects after inhalation                   | : 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

|                          |                  |
|--------------------------|------------------|
| Acute aquatic toxicity   | : Not classified |
| Chronic aquatic toxicity | : Not classified |

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 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 : This substance may be hazardous to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                            |                                                                                                                                                          |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sewage disposal recommendations            | : Do not dispose of waste into sewer.                                                                                                                    |
| Product/Packaging disposal recommendations | : Incinerate. 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 / RID / IMDG / IATA / ADN

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1993 |
| UN-No. (IMDG) | : 1993 |
| UN-No. (IATA) | : 1993 |
| UN-No. (ADN)  | : 1993 |

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UN-No. (RID) : 1993

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.  
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.  
Proper Shipping Name (IATA) : Flammable liquid, n.o.s.  
Proper Shipping Name (ADN) : FLAMMABLE LIQUID, N.O.S.  
Proper Shipping Name (RID) : FLAMMABLE LIQUID, N.O.S.  
Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (1,2-BIS(TRIMETHYLSILOXY)ETHANE), 3, III, (D/E)  
Transport document description (IMDG) : UN 1993 FLAMMABLE LIQUID, N.O.S. (1,2-BIS(TRIMETHYLSILOXY)ETHANE), 3, III  
Transport document description (IATA) : UN 1993 Flammable liquid, n.o.s. (1,2-BIS(TRIMETHYLSILOXY)ETHANE), 3, III  
Transport document description (ADN) : UN 1993 FLAMMABLE LIQUID, N.O.S. (1,2-BIS(TRIMETHYLSILOXY)ETHANE), 3, III  
Transport document description (RID) : UN 1993 FLAMMABLE LIQUID, N.O.S. (1,2-BIS(TRIMETHYLSILOXY)ETHANE), 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



#### IATA

Transport hazard class(es) (IATA) : 3  
Hazard 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



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### 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                      |
| Special provisions (ADR)                                  | : 274, 601                |
| 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)       | : T4                      |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29               |
| Tank code (ADR)                                           | : LGBF                    |
| Vehicle for tank carriage                                 | : FL                      |
| 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                                             | :                         |



|                               |        |
|-------------------------------|--------|
| Tunnel restriction code (ADR) | : D/E  |
| EAC code                      | : •3YE |

#### - Transport by sea

|                                 |                 |
|---------------------------------|-----------------|
| Special provisions (IMDG)       | : 223, 274, 955 |
| Packing instructions (IMDG)     | : P001, LP01    |
| IBC packing instructions (IMDG) | : IBC03         |
| Tank instructions (IMDG)        | : T4            |
| Tank special provisions (IMDG)  | : TP1, TP29     |
| EmS-No. (Fire)                  | : F-E           |
| EmS-No. (Spillage)              | : S-E           |
| Stowage category (IMDG)         | : A             |

#### - 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  |

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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  
Special provisions (ADN) : 274, 601  
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  
Special provisions (RID) : 274, 601  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1, TP29  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
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

No REACH Annex XVII restrictions

1,2-BIS(TRIMETHYLSILOXY)ETHANE is not on the REACH Candidate List

1,2-BIS(TRIMETHYLSILOXY)ETHANE is not on the REACH Annex XIV List

1,2-BIS(TRIMETHYLSILOXY)ETHANE is not 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.

1,2-BIS(TRIMETHYLSILOXY)ETHANE is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

% Volatiles : > 95 %

#### 15.1.2. National regulations

##### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed



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NIET-limitatieve lijst van voor de voortplanting : The substance is not listed  
giftige stoffen – Ontwikkeling

### Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226;H315;H319>; Emergency management guidelines for the storage of flammable liquids must be followed

### 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 Irrit. 2  | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3  | Flammable liquids, Category 3                 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2         |
| H226          | Flammable liquid and vapour.                  |
| H315          | Causes skin irritation.                       |
| H319          | Causes serious eye irritation.                |

SDS EU (REACH Annex II) - Custom

*The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.*

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