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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Substance</th>
</tr>
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<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
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<tr>
<td>Substance name</td>
<td>2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95%</td>
</tr>
<tr>
<td>Product code</td>
<td>SIT7536.0</td>
</tr>
<tr>
<td>Formula</td>
<td>C6H17NSi2</td>
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<td>Synonyms</td>
<td>TETRAMETHYLDISILAPYRROLIDINE; 2,2,5,5-TETRAMETHYL-1-aza-2,5-DISILACYCLOPENTANE</td>
</tr>
<tr>
<td>Chemical family</td>
<td>ORGANOSILANE</td>
</tr>
</tbody>
</table>

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 - 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@gelestdc.com - www.gelestdc.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

Classifiable liquids, Category 3
Flammable liquids, Category 3 - H226
Skin corrosion/irritation, Category 2 - H315
Serious eye damage/eye irritation, Category 2 - H319
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation - H335
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): [flame icon] GHS02; [exclamation mark icon] GHS07

Signal word (CLP): Warning
Hazard statements (CLP): H226 - Flammable liquid and vapour. 
H315 - Causes skin irritation. 
H319 - Causes serious eye irritation. 
H335 - May cause respiratory irritation.

Precautionary statements (CLP): P280 - Wear protective gloves/protective clothing/eye protection/face protection. 
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 
P240 - Ground/bond container and receiving equipment. 
P261 - Avoid breathing vapours. 
P264 - Wash hands thoroughly after handling. 
P312 - Call a doctor if you feel unwell.

2.3. Other hazards
Other hazards not contributing to the classification: This compound reacts with moisture in living tissue to generate ammonia. The US ACGIH (TWA) for ammonia is 25 ppm.

SECTION 3: Composition/information on ingredients
3.1. Substances
Substance type: Mono-constituent
Name: 2,2,5,5-TETRAMETHYL-2,5-DISILA-1 AZACYCLOPENTANE, 95%
CAS-No.: 7418-19-1
EC-No.: 231-036-7

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
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</thead>
<tbody>
<tr>
<td>2,2,5,5-Tetramethyl-2,5-disila-1-azacyclopentane</td>
<td>(CAS-No.) 7418-19-1 (EC-No.) 231-036-7</td>
<td>95 - 100</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335</td>
</tr>
</tbody>
</table>

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 respiratory irritation.
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
 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. Liquid generates strong static charge when poured.
**2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95%**

**Safety Data Sheet**

<table>
<thead>
<tr>
<th>Explosion hazard</th>
<th>May form flammable/explosive vapour-air mixture.</th>
</tr>
</thead>
</table>

### 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 every possible source of ignition. 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. Sweep or shovel spills into appropriate container for disposal. 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. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. 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**

**Storage conditions**

Keep container tightly closed. Keep in a cool place. Store locked up.

**Incompatible materials**


**Storage area**

Store in a well-ventilated place. Store away from heat.

### 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:**

Chemical goggles. Contact lenses should not be worn.
2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95%
Safety Data Sheet

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 combination organic vapor - amine gas (brown 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: 159.38 g/mol
- Colour: No data available
- Odour: Ammonia.
- Odour threshold: No data available
- Refractive index: 1.434
- pH: No data available
- Relative evaporation rate (butylacetate=1): No data available
- Melting point: No data available
- Freezing point: < 0 °C
- Boiling point: 92 °C @ 185 mm Hg
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Flammability (solid, gas): Flammable liquid and vapour.
- Vapour pressure: No data available
- Relative vapour density at 20 °C: > 1
- Relative density: 0.842
- Solubility: Insoluble in water. Reacts with 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 in a cool place.

10.3. Possibility of hazardous reactions
Reacts with water and moisture in air, liberating ammonia.

10.4. Conditions to avoid
Heat. Open flame. Sparks.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Organic amine vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified
## 2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95%
### Safety Data Sheet

<table>
<thead>
<tr>
<th>Property/Parameter</th>
<th>Classification/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potential adverse human health effects and symptoms</td>
<td>Reacts with moisture in living tissue to generate ammonia.</td>
</tr>
<tr>
<td>Symptoms/effects after inhalation</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Symptoms/effects after skin contact</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Symptoms/effects after eye contact</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Symptoms/effects after ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
<tr>
<td>Reason for classification</td>
<td>Expert judgment</td>
</tr>
</tbody>
</table>

## 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**: May be incinerated. 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

<table>
<thead>
<tr>
<th>UN-No. (ADR)</th>
<th>UN-No. (IMDG)</th>
<th>UN-No. (IATA)</th>
<th>UN-No. (ADN)</th>
<th>UN-No. (RID)</th>
</tr>
</thead>
</table>

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.
**2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95%**

### Safety Data Sheet

<table>
<thead>
<tr>
<th>Transport document description (ADR)</th>
<th>UN 1993 FLAMMABLE LIQUID, N.O.S. (2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE), 3, III, (D/E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport document description (IMDG)</td>
<td>UN 1993 FLAMMABLE LIQUID, N.O.S. (2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE), 3, III</td>
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<td>UN 1993 Flammable liquid, n.o.s. (2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE), 3, III</td>
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</table>

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

<table>
<thead>
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<th>ADR</th>
<th>Transport hazard class(es) (ADR)</th>
<th>3</th>
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<tr>
<td></td>
<td>Danger labels (ADR)</td>
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<th>Transport hazard class(es) (IATA)</th>
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<td>Hazard labels (IATA)</td>
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<thead>
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<tbody>
<tr>
<td></td>
<td>Danger labels (RID)</td>
<td>3</td>
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</tbody>
</table>
## 2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95%

### Safety Data Sheet

#### 14.4. Packing group

<table>
<thead>
<tr>
<th>Packing group (ADR)</th>
<th>III</th>
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<tbody>
<tr>
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<td>III</td>
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<td>Packing group (IATA)</td>
<td>III</td>
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<td>Packing group (ADN)</td>
<td>III</td>
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<tr>
<td>Packing group (RID)</td>
<td>III</td>
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</table>

#### 14.5. Environmental hazards

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Value</th>
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<tbody>
<tr>
<td>Dangerous for the environment</td>
<td>No</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No</td>
</tr>
<tr>
<td>Other information</td>
<td>No supplementary information available</td>
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#### 14.6. Special precautions for user

##### - Overland transport

<table>
<thead>
<tr>
<th>Provision</th>
<th>Value</th>
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<tbody>
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<td>Classification code (ADR)</td>
<td>F1</td>
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<tr>
<td>Special provisions (ADR)</td>
<td>274, 601, 640E</td>
</tr>
<tr>
<td>Limited quantities (ADR)</td>
<td>5L</td>
</tr>
<tr>
<td>Excepted quantities (ADR)</td>
<td>E1</td>
</tr>
<tr>
<td>Packing instructions (ADR)</td>
<td>P001, IBC03, LP01, R001</td>
</tr>
<tr>
<td>Mixed packing provisions (ADR)</td>
<td>MP19</td>
</tr>
<tr>
<td>Portable tank and bulk container instructions (ADR)</td>
<td>T4</td>
</tr>
<tr>
<td>Portable tank and bulk container special provisions (ADR)</td>
<td>TP1, TP29</td>
</tr>
<tr>
<td>Tank code (ADR)</td>
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</tr>
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<td>Vehicle for tank carriage</td>
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<td>Transport category (ADR)</td>
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<td>Special provisions for carriage - Packages (ADR)</td>
<td>V12</td>
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<tr>
<td>Special provisions for carriage - Operation (ADR)</td>
<td>S2</td>
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<tr>
<td>Hazard identification number (Kemler No.)</td>
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<td>Orange plates</td>
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</table>

Tunnel restriction code (ADR) | D/E |

##### - Transport by sea

<table>
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<th>Value</th>
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<tbody>
<tr>
<td>Special provisions (IMDG)</td>
<td>223, 274, 955</td>
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<tr>
<td>Limited quantities (IMDG)</td>
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<tr>
<td>Excepted quantities (IMDG)</td>
<td>E1</td>
</tr>
<tr>
<td>Packing instructions (IMDG)</td>
<td>P001, LP01</td>
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<tr>
<td>IBC packing instructions (IMDG)</td>
<td>IBC03</td>
</tr>
<tr>
<td>Tank instructions (IMDG)</td>
<td>T4</td>
</tr>
<tr>
<td>Tank special provisions (IMDG)</td>
<td>TP1, TP29</td>
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<td>F-E</td>
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<td>EmS-No. (Spillage)</td>
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##### - Air transport

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<tr>
<td>PCA Limited quantities (IATA)</td>
<td>Y344</td>
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<tr>
<td>PCA limited quantity max net quantity (IATA)</td>
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<tr>
<td>PCA packing instructions (IATA)</td>
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<tr>
<td>PCA max net quantity (IATA)</td>
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<tr>
<td>CAO packing instructions (IATA)</td>
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<td>CAO max net quantity (IATA)</td>
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<tr>
<td>Special provisions (IATA)</td>
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<tr>
<td>ERG code (IATA)</td>
<td>3L</td>
</tr>
</tbody>
</table>
- **Inland waterway transport**
  - Classification code (ADN) : F1
  - Special provisions (ADN) : 274, 601, 640E
  - 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, 640E
  - 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) : 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

2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95% is not on the REACH Candidate List

2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95% is not on the REACH Annex XIV List

2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95% 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.


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

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

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

**Denmark**

Class for fire hazard : Class II-1

Store unit : 5 liter
2,2,5,5-TETRAMETHYL-2,5-DISILA-1-AZACYCLOPENTANE, 95%
Safety Data Sheet

Classification remarks: R10; H226; H315; H319; H335
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.
Pregnant/breastfeeding women working with the product must not be in direct contact with 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 Irrit. 2 Serious eye damage/eye irritation, Category 2
Flam. Liq. 3 Flammable liquids, Category 3
Skin Irrit. 2 Skin corrosion/irritation, Category 2
STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

SDS EU (REACH Annex II) - Custom

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