



TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 2

Revision date: 01/08/2019

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

1.1 Product identifiers

Product name: Lithium Bis(trimethylsilyl)amide (ca. 26% in Tetrahydrofuran, ca. 1.3mol/L)
Product code: H0915

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V.
 Boerenveldseweg 6
 Haven 1063
 B-2070 Zwijndrecht
 Telephone: +32(0)3 735 07 00
 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| | |
|--|-------------------------------|
| Flammable liquids | Category 2 |
| Acute toxicity (Oral) | Category 4 |
| Skin corrosion/irritation | Category 1B |
| Serious eye damage/eye irritation | Category 1 |
| Germ cell mutagenicity | Category 2 |
| Specific target organ toxicity - Single exposure [Category 2] | Nervous system |
| Specific target organ toxicity - Single exposure [Category 3] | Respiratory tract irritation |
| Specific target organ toxicity - Repeated exposure [Category 1] | Liver, Nervous system, Kidney |

2.2 Label elements

Pictograms or hazard symbols**Signal word**

Danger

Hazard statements

H225-Highly flammable liquid and vapour.
 H302-Harmful if swallowed.
 H314-Causes severe skin burns and eye damage.
 H341-Suspected of causing genetic defects.
 H371-May cause damage to organs : Nervous system
 H372-Causes damage to organs through prolonged or repeated exposure : Liver Nervous system
 Kidney
 H335-May cause respiratory irritation.

Precautionary statements

P260-Do not breathe mist, vapours or spray.
 P280-Wear protective gloves, protective clothing, face protection.
 P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
 P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
 P304+P340+P310-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
 P305+P351+P338+P310-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

H0915

Lithium Bis(trimethylsilyl)amide
 (ca. 26% in Tetrahydrofuran, ca.
 1.3mol/L)

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2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable
vPvB: Not applicable

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components: Lithium Bis(trimethylsilyl)amide (ca. 26% in Tetrahydrofuran, ca. 1.3mol/L)
Percent:
CAS RN: 4039-32-1
EC-No: 223-725-6
Synonyms: Hexamethyldisilazane Lithium Salt (ca. 26% in Tetrahydrofuran, ca. 1.3mol/L) , LHMDS (ca. 26% in Tetrahydrofuran, ca. 1.3mol/L) , LiHMDS (ca. 26% in Tetrahydrofuran, ca. 1.3mol/L) , Lithium Hexamethyldisilazide (ca. 26% in Tetrahydrofuran, ca. 1.3mol/L)
Chemical Formula: $C_6H_{18}LiNSi_2$
Hazardous composition: **Chemical name: Tetrahydrofuran** Conc.: ca. 74%
CAS RN:109-99-9 EC No.: 203-726-8
Flam. Liq. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Carc. 2, STOT SE 2, STOT SE 3, STOT RE 1
H225: Highly flammable liquid and vapour. H302: Harmful if swallowed. H315: Causes skin irritation.
H319: Causes serious eye irritation. H351: Suspected of causing cancer. H371: May cause damage to Nervous system. H335: May cause respiratory irritation. H372: Causes damage to Liver, Nervous system and Kidney through prolonged or repeated exposure. EUH019: May form explosive peroxides.
Chemical name: Lithium Bis(trimethylsilyl)amide Conc.: ca. 26%
CAS RN:4039-32-1 EC No.: 223-725-6
Flam. Sol. 1, Self-heat. 1, Skin Corr. 1B, Eye Dam. 1
H228: Flammable solid. H251: Self-heating; may catch fire. H314: Causes severe skin burns and eye damage. EUH014: Reacts violently with water.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide etc

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

SECTION 6: Accidental release measures

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| 6.1 Personal precautions, protective equipment and emergency procedures | Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc |
| 6.2 Environmental precautions | Prevent product from entering drains |
| 6.3 Methods and materials for containment and cleaning up | Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment. |
| 6.4 Reference to other sections | For disposal see section 13. |

SECTION 7: Handling and storage

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|---|--|
| 7.1 Precautions for safe handling | Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact! |
| 7.2 Conditions for safe storage, including any incompatibilities | Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive, Air-sensitive |
| 7.3 Specific end use(s) | No further relevant information available. |

SECTION 8: Exposure controls/personal protection

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|----------------------------------|---|
| 8.1 Control parameters | No data available (THF) ACGIH TLV(TWA):50 ppm (skin) ACGIH TLV(STEL):100 ppm (skin) OSHA PEL(TWA):200 ppm |
| 8.2 Exposure controls | Install a closed system or local exhaust. Also install safety shower and eye bath. |
| Respiratory protection: | Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations. |
| Hand protection: | Impervious gloves. |
| Eye protection: | Safety goggles. A face-shield, if the situation requires. |
| Skin and body protection: | Impervious protective clothing. Protective boots, if the situation requires. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|-----------------------------------|
| Physical state (20°C): | Liquid |
| Form: | Clear - Cloudy |
| Colour: | Yellow - Deep yellow red |
| Odour: | Ether-like |
| pH: | >7 |
| Melting point/freezing point: | No data available (THF) -108°C |
| Boiling point/range: | No data available (THF) 65°C |
| Flash point: | No data available (THF) -15°C |
| Evaporation rate(Butyl Acetate=1): | No data available |
| Flammability(solid, gas): | No data available |
| Flammability or explosive limits: | |
| Lower: | No data available |
| Upper: | No data available |
| Vapour pressure: | No data available. |
| Vapour density: | No data available |
| Relative density: | No data available |
| Solubility(ies): | |
| [Water] | No data available |
| [Other solvents] | No data available |
| Partition coefficient: n-octanol/water: | No data available (THF) 0.46 |
| Autoignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Dynamic Viscosity: | No data available |
| Kinematic viscosity: | No data available |

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

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|---|--|
| 10.1 Reactivity | No data available |
| 10.2 Chemical stability | Stable under proper conditions. |
| 10.3 Possibility of hazardous reactions | No special reactivity has been reported. |
| 10.4 Conditions to avoid | Spark, Open flame, Static discharge |
| 10.5 Incompatible materials | Oxidizing agents, Acids, Strong bases, Water, Halogens, Alcohols |
| 10.6 Hazardous decomposition products | Carbon monoxide, carbon dioxide etc |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| | |
|---|---|
| Acute Toxicity: | No data available (THF) orl-rat LD50:1650 mg/kg ihl-rat LC50:21000 ppm/3H ipr-rat LD50:2900 mg/kg |
| Skin corrosion/irritation: | No data available |
| Serious eye damage/irritation: | No data available |
| Respiratory or skin sensitization: | No data available |
| Germ cell mutagenicity: | No data available (THF) mmo-esc 1 umol/L (-S9) |
| Carcinogenicity: | |
| IARC = | No data available |
| NTP = | No data available (THF) ihl-rat TCLo:18900 mg/kg/105W-I |
| Reproductive toxicity: | No data available |
| STOT-single exposure: | No data available |
| STOT-repeated exposure: | No data available |
| Aspiration hazard: | No data available |

SECTION 12: Ecological information

12.1 Toxicity

| | |
|-------------------|-------------------|
| Fish: | No data available |
| Crustacea: | No data available |
| Algae: | No data available |

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

| | |
|---|-------------------|
| Log Pow: | No data available |
| Soil adsorption (Koc): | No data available |
| Henry's Law (PaM³/mol): | No data available |

12.5 Results of PBT and vPvB assessment

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|--------------|----------------|
| PBT: | Not applicable |
| vPvB: | Not applicable |

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

SECTION 14: Transport information

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|--|------------------------------------|
| 14.1 UN number | 2924 |
| 14.2 UN proper shipping name | |
| ADR/RID | Flammable liquid, corrosive, n.o.s |
| IMDG/IMO | Flammable liquid, corrosive, n.o.s |
| ICAO/IATA | Flammable liquid, corrosive, n.o.s |
| 14.3 Transport hazard class(es) | |
| ADR/RID | 3: Flammable liquid |
| Subsidiary risk: | 8: Corrosive. |
| IMDG/IMO | 3: Flammable liquid |
| Subsidiary risk: | 8: Corrosive. |
| ICAO/IATA | 3: Flammable liquid |
| Subsidiary risk: | 8: Corrosive. |
| 14.4 Packaging group | |
| ADR/RID | II |
| IMDG/IMO | II |
| ICAO/IATA | II |
| 14.5 Environmental hazards | |
| Marine pollutant | - |
| 14.6 Special precautions for user | No data available |

SECTION 15: Regulatory information

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| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006 | Not listed |
| 15.2 Chemical safety assessment | A chemical safety assessment has not been carried out. |

SECTION 16: Other information

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|---------------------|-----------------|
| Prepared by: | TCI EUROPE N.V. |
| Issue date: | 01/08/2019 |

This SDS was prepared sincerely on the basis of the information we could obtain, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet