WONIK MATERIALS NORTH AMERICA

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SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lithium bis(trimethylsilyl)amide**

FORMULA: $C_6H_{18}LiNSi_2$

CAS NO: 4039-32-1

SYNONYMS: Lithium hexamethyldisilazide

MANUFACTURER:

Wonik Materials North America
N115 W19392 EDISON DRIVE
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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC 1-703-741-5500

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SECTION 2 HAZARDS IDENTIFICATION

OSHA HAZARDS
Flammable solid, Target organ effect, Corrosive

Pictogram

Signal Word **Danger**

Hazard Statements

H228	Flammable solid.
H314	Causes severe skin burns and eye damage

Precautionary Phrases

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P210	Keep away from heat/sparks/open flames/hot surfaces. –No smoking
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

OTHER HAZARDS
Reacts violently with water.

HMIS CLASSIFICATION
Health: 3 Chronic Health Hazard: * Flammability: 3 Reactivity: 2

NFPA 704 RATINGS (SCALE 0-4):
Health: 3 Fire: 3 Reactivity: 2

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $C_6H_{18}LiNSi_2$

Molecular Weight: 167.33 g/mol

CHEMICAL NAME	CAS#	Concentration
Lithium bis(trimethylsilyl)amide	4039-32-1	

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
SKIN EXPOSURE: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:
Suitable: Dry powder
Unsuitable: Not available

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:
Carbon oxides, nitrogen oxides, Lithium oxides, and silicon oxides

ADVICE FOR FIRE FIGHTERS
Wear a self-contained breathing apparatus for fire fighting if necessary.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONNAL PRECAUTIONS: Wear respiratory protection. Avoid breathing and formation of dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

METHODS AND MATERIALS: Soak up with inert absorbent material and dispose of as hazardous waste. Do not flush with water. Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

PERSONNEL PRECAUTIONS
Avoid contact with skin and eyes. Avoid formation of dust. Remaining quantities should be stored under inert gas

CONDITIONS FOR SAFE STORAGE
Keep container tightly closed in a dry and well-ventilated place. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage. Never allow product to get in contact with water during storage. Remaining quantities should be stored under inert gas

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT
RESPIRATORY PROTECTION: Air-purifying respirators are appropriate. Use full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirators. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
EYE/FACE PROTECTION: Wear tightly fitting safety goggles. Faceshield (8-inch minimum). Make sure to use equipment for eye protection that is tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
SKIN PROTECTION: Wear gloves that will be inspected prior to use. Use proper glove removal technique to avoid skin contact of this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Wear a complete suit that protects against chemicals and is flame retardant. This protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White, light yellow powder chunks
pH: Not available
MELTING POINT/ FREEZING POINT: 85 deg. C
BOILING POINT: 279 deg. C
FLASH POINT: Not applicable
AUTO-IGNITION TEMPERATURE: No data available
DENSITY: .86 g.cm3 @ 25 deg. C
LOWER EXPLOSION LIMIT: No data available
UPPER EXPLOSION LIMIT: No data available
VAPOR PRESSURE: No data available
VAPOR DENSITY: No data available
SOLUBILITY IN WATER: No data available
COEFF. WATER/OIL DUST: No data available
ODOR: No data available
ODOR THRESHOLD: No data available
EVAPORATION RATE: No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.
HAZARDOUS POLYMERIZATION: Reacts violently with water
CONDITIONS TO AVOID: Exposure to moisture, heat, flames, and sparks.
INCOMPATIBILITY: Strong oxidizing agents, acids, and alcohols.
DECOMPOSITION PRODUCTS: Carbon oxides, Nitrogen oxides, Lithium oxides, and Silicon oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: No data available
SKIN CORROSION/IRRIATANT: No data available

SECTION 11 TOXICOLOGICAL DATA (Cont.)

SERIOUS EYE DAMAGE/IRRITATION: No data available
GERM CELL MUTAGENICITY: No data available
CARCINOGENICITY:

IARC: No component of this product present at levels great than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels great than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels great than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels great than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE: No data available
SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE: No data available.
POTENTIAL HEALTH EFFECTS:
INHALATION: May be harmful if inhaled. Material is extremely destructive to the mucous membranes and upper respiratory tract.
INGESTION: May be harmful if swallowed.
SKIN: Causes skin burns. May be harmful if absorbed through the skin.
EYES: Causes eye burns.
SIGNS AND SYMPTOMS OF EXPOSURE: Cough, shortness of breath, headache, and burning sensation. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

SECTION 12 ECOLOGICAL DATA

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose any contaminated packaging as unused product.

SECTION 14 TRANSPORTATION DATA

Flammable solids, corrosive, organic, n.o.s. (Lithium bis(trimethylsilyl)amide)
Class 4.1 (8)
UN2925
PG II

DOT IATA and IMDG Regulated
Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

OSHA HAZARDS: Flammable solid, target organ effect, corrosive

SARA 311/312 HAZARDS:: Fire hazard, acute health hazard, and chronic health hazard

PENNSYLVANIA RIGHT TO KNOW COMPONENTS:

	CAS NO.
Lithium bis(trimethylsilyl)amide	4039-32-1

NEW JERSEY RIGHT TO KNOW COMPONENTS:

	CAS NO.
Lithium bis(trimethylsilyl)amide	4039-32-1

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Wonik Materials North America makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.
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SDS DEPT