

Date of issue: 2018/04/16 Date of revision: 2023/09/13

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: LiN(SO2CF3)2 SDS No. : 4351E-3
Relevant identified uses of the substance or mixture and uses advised against Research and Development
Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN Division: Chemical Safety Management Department Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607

Section 2. Hazards identification

GHS classification and label elements of the product Classification of the substance or mixture HEALTH HAZARDS Reproductive toxicity: Category 1A (Note) GHS classification without description: Not classified/Classification not possible

Label elements



Signal word: Danger HAZARD STATEMENT H360 May damage fertility or the unborn child PRECAUTIONARY STATEMENT Prevention P202 Do not handle until all safety precautions have been read and understood. P280 Use personal protective equipment as required. Response P308 + P313 IF exposed or concerned: Get medical advice/attention. Storage P405 Store locked up. Disposal P501 Dispose of contents/container in accordance with local/national regulation. Specific adverse human health effects

See "11. Toxicological Information".



Section 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name	Content (%)	CAS No.	Chemicals No, Japan	Chemical formula
Lithium bis(trifluoro	99(min)	90076-65-6	2-3831	LiN(SO2CF3)2
methanesulfonyl)imide				

Note : The figures shown above are not the specifications of the product.

Section 4. First-aid measures

Descriptions of first-aid measures General measures IF exposed or concerned: Get medical advice/attention. IF INHALED Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. IF ON SKIN Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell. Section 5. Fire-fighting measures Extinguishing media

Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities. Unsuitable extinguishing media Unsuitable extinguishing media data is not available. Specific hazards arising from the substance or mixture Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. See "10.Stability and Reactivity". Advice for firefighters Specific fire-fighting measures Evacuate non-essential personnel to safe area. Special protective equipment and precautions for fire-fighters Wear fire resistant or flame retardant clothing. Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.



Section 6. Accidental release measures				
Personnel precautions, protective equipment and emergency procedures Keep unauthorized personnel away.				
discharged to the environment without being properly handled waste water contaminated.				
Methods and materials for containment and cleaning up				
Sweep up, place in a bag and hold for waste disposal.				
Preventive measures for secondary accident				
Collect spillage.				
Section 7. Handling and storage				
Precautions for safe handling				
Preventive measures				
(Exposure Control for handling personnel)				
Do not breathe dust/fume/gas/mist/vapors/spray.				
(Protective measures against fire and explosion)				
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No				
smoking.				
(Exhaust/ventilator)				
Exhaust/ventilator should be available.				
(Safety treatments)				
Avoid contact with skin.				
Avoid contact with skill. Avoid contact with eyes.				
Safety Measures				
Do not handle until all safety precautions have been read and understood.				
Recommend to use protective equipment in conformity with the standards.				
Wear protective gloves/protective clothing/eye protection/face protection. Wash hands et al thoroughly after handling.				
Wash hands et al thoroughly after handling. When using do not eat, drink or smoke.				
Any incompatibilities				
See "10.Stability and Reactivity".				
Storage				
Conditions for safe storage				
Keep container tightly closed.				
Store locked up. (P405)				
Store in a cool, dry place. Do not store in direct sunlight.				
Storage in accordance with local/national regulation.				
Container and packaging materials for safe handling				
Glass				
etc.				

Section 8. Exposure controls/personal protection Control parameters Adopted value



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Adopted value in ACGIH is not available.

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge

corresponding to type of gases when using a gas mask.

Hand protection

Wear impervious protective glove.

Eye protection

Wear eye/face protection. Wear safety goggles in cases gas is generated.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Crystals or powder Color: White Odor: Odorless Melting point/Freezing point data is not available. Boiling point or initial boiling point data is not available. Boiling range data is not available. Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit data is not available. Flash point data is not available. Auto-ignition temperature data is not available. Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: Soluble Solubility in solvent data is not available. n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Density and/or relative density data is not available. Relative vapor density (Air=1) data is not available. Particle characteristics data is not available. Other information Other information is not available.

Section 10. Stability and Reactivity

Reactivity Not available.

Chemical stability

Stable under normal storage/handling conditions.



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Possibility of hazardous reactions Form cauterant and/or virulent fume by heating. Form Hydrogen gas by contact with metal. Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Metals Hazardous decomposition products Sulfur oxides, Hydrogen, Hydrogen fluoride Section 11. Toxicological Information Information on toxicological effects Acute toxicity data is not available. Irritant properties Skin corrosion/irritation data is not available. Serious eye damage/irritation data is not available. Allergenic and sensitizing effects data is not available. Mutagenic effects data is not available. Carcinogenic effects data is not available. Reproductive toxicity [Product] Category 1A, May damage fertility or the unborn child

May cause lung disorders by massive inhalation of powdered substance. -e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung

Information on other hazards

Specific target organ toxicity (STOT)

Aspiration hazard data is not available.

function, interstitial lung disease, pneumothorax

[Data for components of the product] [GHS Cat. Japan, base data]

STOT-single exposure data is not available. STOT-repeated exposure data is not available.

cat. 1A; Teratogenic 12th, 2007 (lithium)

Section 12. Ecological Information

Toxicity Toxicity data is not available. Persistence and degradability Persistence and degradability data is not available. Bioaccumulative potential Bioaccumulative potential data is not available. Mobility in soil Mobility in soil data is not available. Other adverse effects Ozone depleting chemical data is not available.



Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Dispose of contents/container as industrial waste. Accordance with local/national regulation.

Section 14. Transport Information

UN Number or ID Number : Not regulated IMDG Code (International Maritime Dangerous Goods Regulations) UN Number or ID Number : Not regulated IATA (Dangerous Goods Regulations) UN Number or ID Number : Not regulated Environmental hazards Marine pollutants (yes/no) : no

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Applicable

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN IMDG Code, 2020 Edition (Incorporating Amendment 40–20) IATA Dangerous Goods Regulations (64th Edition) 2023 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2023 TLVs and BEIs. (ACGIH) Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2021).