



SAFETY DATA SHEET

Issue Date 22-Nov-2025 Revision Number 4.06

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Lithium Hydroxide Monohydrate

Other means of identification

Product Code(s) 125-01845

Recommended use of the chemical and restrictions on use
Recommended Use For research use only.

Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

FUJIFILM Wako Pure Chemical Corporation FUJIFILM Irvine Scientific

1-2, Doshomachi 3-Chome, E. Warner Avenue, Santa Ana, CA 92705-5505, U.S.A.: +1 949 261 7800

Chuo-ku Osaka 540-8605, Japan Fax: +1 949 261 6522

Tel: +81-6-6203-3741 Fax: +81-6-6201-5964

2. HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists)Category 3Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1

Reproductive Toxicity Category 2 (additional)

Specific target organ toxicity (single exposure) Category 1

Category 1 central nervous system, respiratory system

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 nervous system, respiratory system, cardiovascular system, kidneys, thyroid gland

Pictograms



Signal word

Danger

Hazard statements

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H331 Toxic if inhaled
- H361 Suspected of damaging fertility or the unborn child
- H362 May cause harm to breast-fed children
- H370 Causes damage to the following organs: central nervous system, respiratory system
- H372 Causes damage to the following organs through prolonged or repeated exposure: nervous system, respiratory system, cardiovascular system, kidneys, thyroid gland

Precautionary statements-(Prevention)

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use

personal protective equipment as required Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Precautionary statements-(Response)

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/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary statements-(Storage)

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula LiOH·H2O

Chemical Name	Molecular weight	CAS RN	Weight-%
Lithium Hydroxide Monohydrate	41.96	1310-66-3	95.0 - 104.0

Impurities and/or Additives: Not applicable

4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician

or poison control center immediately. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Sensitivity to Mechanical

none.

Impact

Sensitivity to Static Discharge none.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective

Ensure adequate ventilation, especially in confined areas.

equipment and emergency

procedures

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or

tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Dam up. Soak up with inert absorbent material. Pick up and transfer to

properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Avoid contact with acidic substances

Protective measures Use with local exhaust ventilation. Use personal protective equipment as required. Do

not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage conditionsStore away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed. Store locked up.

Packaging materials Polypropylene.

Incompatible materials Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits Not applicable

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Color white

Appearance crystals - crystalline powder

Odor Odorless pH basic (aq.)
Melting point/freezing point 462 °C

Boiling point, initial boiling point and boiling range
Flash point
Evaporation rate:
Flammability (solid, gas):

no data available
no data available
no data available

Upper/lower flammability or

explosive limits

Upper:

Lower:

No data available

no data available

vapour pressure

vapour density

no data available

no data available

no data available

1.51 g/cm3

Solubilities water : freely soluble . Ethanol : slightly soluble .

n-Octanol/water partition coefficient:(log Pow) no data available Auto-ignition temperature: no data available

Decomposition temperature: 924 °C

Viscosity (coefficient of viscosity)no data availableDynamic viscosityno data availableParticle characteristicsno data available

10. STABILITY AND REACTIVITY

Stability

Chemical stability Stable under recommended storage conditions.

Reactivity no data available

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Moisture

Incompatible materials

Strong acids

Hazardous decomposition products

Metal oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Lithium Hydroxide Monohydrate	210 mg/kg (Rat)	N/A	= 0.96 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Lithium Hydroxide Monohydrate			Based on the NITE GHS classification results.

Skin correction/irritation source information

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Elimani riyaroxiao Mononyarato			Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skill corresion/irritation source information
Lithium Hydroxide Monohydrate	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Lithium Hydroxide Monohydrate	Based on the NITE GHS classification results.
Pospiratory or skip sonsitization	

Respiratory or skin sensitization

Chemical Name Respiratory or Skin sensitization source information Lithium Hydroxide Monohydrate Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Lithium Hydroxide Monohydrate	Based on the NITE GHS classification results.
Carcinogenicity	

Carcinogenicity

Chemical Name	Carcinogenicity source information
Lithium Hydroxide Monohydrate	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Lithium Hydroxide Monohydrate	Based on the NITE GHS classification results.
STOT-single exposure	

Chemical Name STOT -single exposure- source information Lithium Hydroxide Monohydrate Based on the NITE GHS classification results.

STOT-repeated exposure

Lithium Hydroxide Monohydrate Based on the NITE GHS classification results.	Chemical Name	STOT -repeated exposure- source information
=	Lithium Hydroxide Monohydrate	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Lithium Hydroxide Monohydrate	Based on the NITE GHS classification results.

12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility

no data available

Mobility in soil No information available No information available Other Data

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and Disposal of wastes

regulations.

Precautionary including method of Disposal should be in accordance with applicable regional, national and local laws and disposing contaminated packaging regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No UN2680

Proper shipping name: Lithium hydroxide

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UN classfication Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IATA

UN/ID No UN2680

Proper shipping name: Lithium hydroxide

UN classfication

Subsidiary hazard class

Packing group Ш

Environmentally Hazardous Not applicable

Substance

IMDG

UN/ID No UN2680

Proper shipping name: Lithium hydroxide

UN classfication

Subsidiary hazard class

Packing group

Not applicable Marine pollutant (Sea)

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
Lithium Hydroxide Monohydrate - 1310-66-3	1310-66-3	95.0 - 104.0	N/A

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any chemicals regulated by Proposition 65

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Lithium Hydroxide Monohydrate	X	N/A	N/A
1310-66-3			

U.S. EPA Label Information

EPA Pesticide Registration NumberNot applicable

16. OTHER INFORMATION

Issue Date 22-Nov-2025

Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet