Material Safety Data Sheet	MOLYCHEM
LITHIUM HYDROXIDE (MONOHYDRATE) AR	VERSION : 02 DATE OF ISSUE : 26-08-2019 SUPERSEDES : 01

Product Code : 23840

1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Trade name : LITHIUM HYDROXIDE (MONOHYDRATE) AR **Product code** : 23840

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Identification of the product : LITHIUM HYDROXIDE (MONOHYDRATE) AR CAS No :1310-66-3

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442.

Email: info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,

Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm).

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Xn; R22

C; R35

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP) Health hazards : Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

2.2. Label elements

Labelling EC 67/548 or EC 1999/45 Symbol(s) : F : Highly flammable



R Phrase(**s**) : R22 : Harmful if swallowed.

R35 : Causes severe burns.

S Phrase(s) : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

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Labelling Regulation EC 1272/2008 (CLP) Hazard pictograms



Signal words : Danger

Hazard statements : H314 : Causes severe skin burns and eye damage.

H302 : Harmful if swallowed.

Precautionary statements

• **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• **Response** : P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.

P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

• **Storage** : P405: Store locked up.

• **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : LITHIUM HYDROXIDE (MONOHYDRATE) AR CAS No :1310-66-3

Substance.

Contains no other components or impurities which will influence the classification of the product.

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4. First aid measures

4.1. Description of first aid measures

Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

Skin contact : Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

Eye contact : Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. **Ingestion** : Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Causes severe skin burns and eye damage.

Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. **Unsuitable extinguishing media** : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up
Clean up methods : On land, sweep or shovel into suitable containers. Minimize
generation of dust. Store away from other materials.
6.4. Reference to other sections
See section 8. Exposure controls/personal protection
7. Handling and storage
7.1. Precautions for safe handling
Handling : Do not eat, drink or smoke when using this product. Do not breathe dust,
fume, gas, mist, vapours, spray. Wash thoroughly after handling. Avoid contact during
pregnancy or while nursing.
Technical protective measures : Provide good ventilation in process area to prevent
formation of vapour.
7.2. Conditions for safe storage, including any incompatibilities
Storage : Keep only in the original container in a cool, well ventilated place. Keep
container closed when not in use.
Storage regulation : Comply with applicable regulations.
Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.
7.3. Specific end use(s)
Specific end use(s) : None.
8. Exposure controls/personal protection
8.1. Exposure controls
Personal protection : Avoid all unnecessary exposure.
• Respiratory protection : Wear approved mask.
• Hand protection : Wear protective gloves.
• Skin protection : Wear suitable protective clothing.
• Eye protection : Chemical goggles or face shield.
• Others : When using, do not eat, drink or smoke.
8.2. Control parameters
Occupational Exposure Limits : No data available.
9. Physical and chemical properties

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.

Odour threshold : No data available.

pH value : Not applicable.

Melting point [°C] : No data available.

Decomposition point [°C] : N/A

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Critical temperature [°C] : N/A Auto-ignition temperature [°C] : N/A Flammability (solid, gas) : N/A **Flash point** [°C] : N/A **Boiling point** [°C] : 100 °C **Initial boiling point** [°C] : N/A **Final boiling point** [°C] : N/A **Evaporation rate : N/A** Vapour pressure [20°C] : N/A Vapour pressure mm/Hg : N/A Vapour density : N/A **Density** [g/cm3] : 1,51 **Relative density, gas (air=1)** : N/A Relative density, liquid (water=1) : N/A Solubility in water [% weight] : 42 g/l at 20 °C **Solubility in water** : N/A Log Pow octanol / water at 20°C : No data available. Solubility : 14 Viscosity at 40°C [mm2/s] : N/A 9.2. Other information **Explosive properties** : N/A **Explosion limits - upper [%]** : N/A Explosion limits - lower [%] : N/A **Oxidising properties** : No data available. **10. Stability and reactivity 10.1. Reactivity Reactivity** : Not established. **10.2.** Chemical stability Chemical stability : Stable under recommended storage conditions. 10.3. Possibility of hazardous reactions Hazardous reactions : Not established. **10.4.** Conditions to avoid **Conditions to avoid** : Direct sunlight. Extremely high or low temperatures. **10.5.** Incompatible materials Materials to avoid : Strong acids. Strong bases. **10.6. Hazardous decomposition products** Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

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<u>11. Toxicological information</u>

11.1. Information on toxicological effects

Acute toxicity

• Inhalation : Based on available data, the classification criteria are not met.

• Dermal : Based on available data, the classification criteria are not met.

• **Ingestion** : Harmful if swallowed.

Corrosion : Causes severe skin burns and eye damage.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

<u>12. Ecological information</u>

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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14. Transport information 14.1. Land transport (ADR-RID) Proper shipping name : LITHIUM HYDROXIDE UN N° : 2680 **H.I. nr** : 80 ADR - Class : 8 Labelling - Transport : 8 : Corrosive substance. ADR - Classification code : C6 ADR - Group : II **ADR - Packing instructions** : P002 ADR - Limited Quantity : 1 KG ADR - Tunnel code : E : Passage forbidden through tunnels of category E. 14.2. Sea transport (IMDG) [English only] **Proper shipping name** : LITHIUM HYDROXIDE **UN N°** : 2680 **IMO-IMDG - Class or division** : 8 : Corrosive substance. **IMO-IMDG - Packing group** : II **IMO- IMDG - Packing instructions** : P002 **IMO-IMDG - Limited quantities :** 1 kg **IMO-IMDG - Marine pollution** : No EMS-Nr : F-A S-B 14.3. Air transport (ICAO-IATA) [English only] **Proper shipping name** : LITHIUM HYDROXIDE **UN N°** : 2680 IATA - Class or division : 8 : Corrosive substance. IATA - Packing group : II IATA - Passenger and Cargo Aircraft : ALLOWED - Passenger and Cargo - Packing: 859 instruction - Passenger and Cargo - Maximum : 15 kg **Quantity/Packing** IATA - Cargo only : ALLOWED - Cargo only - Packing instruction : 863 - Cargo only - Maximum Quantity/: 50 kg Packing IATA - Limited Quantites : 5 kg **ERG-Nr** : 8L

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15. Regulatory information

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

Safety, health and environmental : Ensure all national/local regulations are observed. **regulations/legislation specific for the substance or mixture**

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 **Further information** : None.

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<u>End of document</u> Prepared by: MOLYCHEM (INDIA)

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