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Material Safety Data Sheet LITHIUM HYDROXIDE

Section 1 - Product Identification

Synonyms: Lithium hydroxide, anhydrous

CAS No. : 1310-66-3 Molecular Weight : 23.95 g/mol

Chemical Formula : LiOH

Company Identification : Tradeasia International Pte. Limited

Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore

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Section 2 – Hazards Identification

Emergency Overview

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Appearance	Crystalline powder					
Color	White					
Odor	Odorless					

GHS Classification

Chemical considered hazardous by 2012 OSHA Hazard Communication Standard

Skin and eye irritation, Category 1B

Acute oral toxicity, Category 4

Serious eye damage, Category 1

Specific target organ (kidney) toxicity, Category 1

Label element

Hazard pictograms



Signal Word : Danger

Hazard Statements

H302 Harmful if swallowed

H313+H333 May be harmful in contact with skin or if inhaled

Precautionary Statements

Prevention

P264 Wash thoroughly after handling.

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

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

Storage

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P403 + P233 Store in a well-ventilated place. Keep the container tightly closed.

P235 Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant

Section 3 – Composition/Information on Ingredients

Ingredients

Component	CAS-No.	EINECS/ELINCS	Concentration (%)		
Lithium hydroxide	1310-66-3	Unlisted	98		

Section 4 – First-Aid Measures

General advice : Take off contaminated clothing.

Inhalation : If inhaled, remove from exposure and move to fresh air. Transport to the nearest

medical facility.

Skin contact : Remove contaminated clothing. IMMEDIATE medical treatment. Corrosive injuries

that are not treated are hard to cure.

Eye contact : IMMEDIATELY flush eyes with plenty of water for at least 15 minutes. Get medical

aid immediately if symptoms persist.

Ingestion : If swallowed, rinse mouth. Call the doctor if you feel unwell.

Notes to physician

Risks : Not available Treatment : Not available

Section 5 – Fire Fighting Measures

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon

dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media : Water jet

Specific hazards during fire fighting /

Specific hazards arising from the

chemical

Non-combustible.

Combustion products : Not applicable.

Special protective equipment

for fire-fighters

: No information available.

Further information : No information available.

See also Section 9. Physical and chemical properties: Safety data

Section 6 – Accidental Release Measures

Personal Precautions : Do not breathe dust. Avoid contact with skin and eyes. Provide

adequate ventilation.

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Environmental Precautions : Do not flush into surface water or sanitary sewer systems.

Keep away from drains, surface and groundwater.

Methods for cleaning up/methods for

containment

Take up mechanically for example using a shovel. Ensure dust

is controlled.

Additional Advice : For personal protection see section 8.

Section 7 – Handling and Storage

HANDLING

Advice on safe handling

Provide adequate ventilation. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

STORAGE

Requirements for storage areas and containers

Corrosive area. Store in a cool, well-ventilated and dry place. Store in a tightly closed container. Maximum storage temperature is 25°C. Store protected from moisture and under inert atmosphere.

Section 8 – Exposure Controls/Personal Protection (later)

Exposure Guidelines

None under normal usage conditions.

Personal protective equipment

Eye/face protection : Wear tight sealing eyeglasses or chemical safety goggles as

described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Use face protection

shield.

Hand protection : Wear appropriate protective gloves

Skin and body protection : Protective suit to prevent skin exposure

Respiratory protection : No equipment needed when used under normal conditions

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. When using do not eat or drink. When using, do not

smoke.

Section 9 – Physical and Chemical Properties

Appearance

Form : Solid Color : White Odor : Odorless

Odor Threshold : No data available

Safety Data

pH : 14 Melting point : $450 \,^{\circ}\text{C}$ Boiling point : $923.9 \,^{\circ}\text{C}$

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Flash point : No data available
Evaporation rate : Not applicable
Flammability (solid, gas) : No data available
Lower explosion limit : No data available
Upper explosion limit : No data available
Vapor pressure : Negligible

Vapor density : Not applicable

Specific gravity : 2.5

Water solubility : Soluble in water Solubility in other solvents : No data available Partition coefficient: n-octanol/water : No data available Autoignition temperature : No data available Decomposition temperature : No data available Viscosity, dynamic : No data available Viscosity, kinematic : No data available Explosive properties : No data available

Section 10 – Stability and Reactivity

Conditions to avoid : Dust formation. Avoid excess heat, exposure to moisture of water.

Materials to avoid : Corrosive to copper and copper bearing alloys. Oxidizing solid/liquids.

Conditions to avoid : Strong oxidizing agents, strong acids, lead, metals, carbon dioxide (CO₂).

Hazardous decomposition products: Thermal decomposition leads to release of irritating vapors and gases.

Reactivity : None known.

Chemical stability : Hygroscopic. Air sensitive. Hazardous reactions : None under normal processing

Other Data : This material is considered stable under normal ambient anticipated storage and

handling conditions of temperature and pressure. No decomposition if applied and

stored as directed.

Section 11 – Toxicological Information

Toxicology Assessment Product Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Lithium hydroxide	330 mg/kg (rat)	Not listed	LC50 = 960 mg/m ³ (rat) 4h	

Irritation : Causes burns by all exposure routes.

Sensitization : No information available.

Carcinogenicity:

IARC : Not listed
OSHA : Not listed
NTP : Not listed
ACGIH : Not listed
Mexico : Not listed

Other adverse effects

The toxicological properties have not been fully investigated

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Section 12 – Ecological Information

Ecotoxicology Assessment

Do not empty into drains

Elimination information (persistence and degradability)

Bioaccumulation : No information available. Biodegradability : No information available. Result of PBT assessment : No information available.

Section 13 – Disposal Considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. They must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 – Transport Information

DOT

UN-No UN2680

Proper Shipping Name LITHIUM HYDROXIDE

Hazard Class 8
Packing Group ||

IATA

UN-No UN2680

Proper Shipping Name LITHIUM HYDROXIDE

Hazard Class 8
Packing Group | |

IMDG/IMO

UN-No UN2680

Proper Shipping Name LITHIUM HYDROXIDE

Hazard Class 8
Packing Group II

TDG

UN-No UN2680

Proper Shipping Name LITHIUM HYDROXIDE

Hazard Class 8
Packing Group | |

Section 15 – Regulatory Information

US Inventories

Component	CAS-No	TSCA	TSCA Inventory notification	TSCA-EPA Regulatory Flags
Lithium hydroxide	1310-65-2	X	Х	Х

International Inventories

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Component	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Lithium hydroxide	×	-	215-183-4	-	-	X	Х	Х	Х	KE-22570

Legends

X - Listed

'-' - Not listed

TSCA - Toxic Substance Control Act, (40 CFR Part 710)

AICS - Australia, Inventory of Chemical Substance

EINECS - European Inventory of Existing Chemical Substances

DSL - Domestic Substances List

NDSL - Canada, Domestic Substances List

ELINCS - European List of Notified Chemical Substances

NLP - No-longer Polymers List

PICCS - Philippine Inventory of Chemicals and Chemical Substances

ENCS - Japanese Existing and New Chemical Substances Inventory

IECSC - Inventory of Existing Chemical Substances in China

KECL - Korea Existing Chemicals List

TWA - Time weighted average

Section 16: Additional Information

Revision Date : 21-December-2020

Print Date : 21-December-2020

NFPA Hazard Ratings

Health : 3
Flammability : 0
Instability : 0
Physical hazards : N/A

Disclaimer:

The information provided in this Material 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.