

CAS No: 1310-66-3 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identificatio	n of the substance/mixture and of the company/undertaking					
1.1. Product identifie	er					
Product form	: Substance					
	:					
CAS No	: 1310-66-3					
Product code	: 04443					
1.2. Relevant identif	ied uses of the substance or mixture and uses advised against					
1.2.1. Relevant identif	ied uses					
Use of the substance/mixt	ure : Laboratory chemicals, Manufacture of substances					
1.2.2. Uses advised ag	gainst					
No additional information	-					
1.3. Details of the su	upplier of the safety data sheet					
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com						
1.4. Emergency tele	nhone number					
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)					
SECTION 2: Hazards identification						
2.1. Classification of the substance or mixture						
Classification according	to Regulation (EC) No. 1272/2008 [CLP]					
Skin corrosion/irritation,	H314					
Category 1A Acute toxicity (oral),	H302					

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

F; R22-35 Full text of R-phrases: see section 16

Category 4

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS05 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage
Precautionary statements (CLP)	 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

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients							
3.1.	Substance						
Name		: LITHIUM HYDROXIDE (MONOHYDRATE) AR/ACS					
CAS No)	: 1310-66-3					

Full text of R- and H-phrases: see section 16

3.2.	Mixture	9													
Not app	plicable														

SECTION 4: First aid measures	
4.1. Description of first aid measure	S
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	 Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after eye contact	 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.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate med	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
SECTION 5. Firefighting measures	
5.1. Extinguishing media	
No additional information available	
5.0 On a sight harmondal projection of forms that	
5.2. Special hazards arising from the No additional information available	substance or mixture
No additional information available	
5.3. Advice for firefighters	
No additional information available	
SECTION 6: Accidental release measures	s
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Avoid release to the environment.	
0.0 Mother de sur dur staniel fan en stati	
6.3. Methods and material for contain	
Methods for cleaning up	: Clear up rapidly by scoop or vacuum.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Store in original container.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	

No additional information available

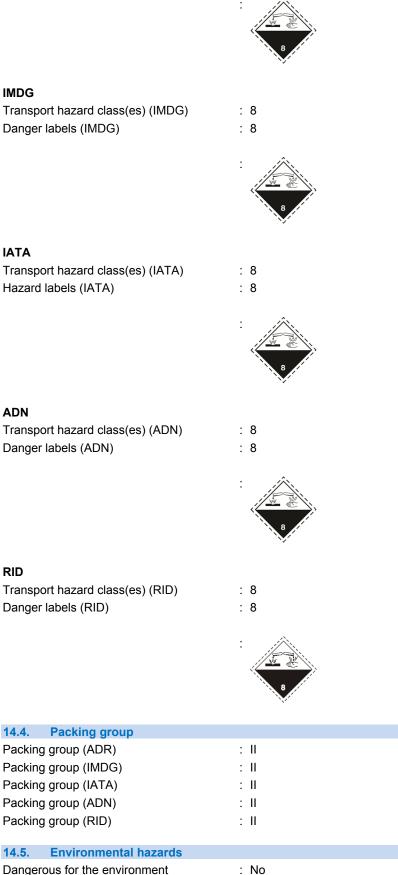
8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear appropriate mask
SECTION 9: Physical and chemical prop	
9.1. Information on basic physical a Physical state	nd chemical properties : Solid
Colour	: White crystalline.
Odour	: odourless.
Odour threshold	: No data available
рН	: 14
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 1.51 g/cm³ : Water: 42 g/l at 20 °C
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Thermal decomposition generates : Corros	
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10.2. Chemical stability	
No additional information available	
10.3. Possibility of hazardous read	tions
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pr	
Thermal decomposition generates : Cor	rosive vapours.
SECTION 11: Toxicological information	on la constante de la constante
11.1. Information on toxicological	effects
Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 14
Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: 14
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	

No additional information available

12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to
recommendations	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	TA / ADN
14.1. UN number	
UN-No. (ADR)	: 2680
UN-No. (IMDG)	: 2680
UN-No.(IATA)	: 2680
UN-No.(ADN)	: 2680
UN-No. (RID)	: 2680
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	
Proper Shipping Name (IMDG)	
Proper Shipping Name (IATA)	
Proper Shipping Name (ADN)	: LITHIUM HYDROXIDE : LITHIUM HYDROXIDE
Proper Shipping Name (RID) Transport document description (ADR)	
Transport document description (ADR)	: UN 2680 LITHIUM HYDROXIDE, 8, II, (E) : UN 2680 LITHIUM HYDROXIDE, 8, II
Transport document description (IMDG)	: UN 2680 LITHIUM HYDROXIDE, 8, II
Transport document description (ADN)	: UN 2680 LITHIUM HYDROXIDE, 8, II
Transport document description (RID)	: UN 2680 LITHIUM HYDROXIDE, 8, II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8

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: No

: No supplementary information available

IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)

Hazard labels (IATA)

ADN

ΙΑΤΑ

Transport hazard class(es) (ADN) Danger labels (ADN)



14.4.

14.5.

Transport hazard class(es) (RID) Danger labels (RID)

Packing group

Packing group (ADR)

Packing group (IMDG)

Packing group (IATA)

Packing group (ADN)

Packing group (RID)

Marine pollutant

Other information

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14.6. Special precautions for user

- Overland transport

- Overland transport	
Classification code (ADR)	: C6
Limited quantities (ADR)	: 1kg
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P002, IBC08
-	
Special packing provisions (ADR)	
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	
Hazard identification number (Kemler No.)	: 80
Orange plates	: 80
	2680
Tunnel restriction code (ADR)	: E
EAC code	: 2X
	. 2/
- Transport by sea	
Limited quantities (IMDG)	: 1 kg
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B2, B4
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SG35
MFAG-No	: 154
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y844
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 859
PCA max net quantity (IATA)	: 15kg
CAO packing instructions (IATA)	: 863
CAO max net quantity (IATA)	: 50kg
ERG code (IATA)	: 8L
- Inland waterway transport	
Classification code (ADN)	: C6
Limited quantities (ADN)	: 1 kg
Excepted quantities (ADN)	: E2

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Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C6
Limited quantities (RID)	: 1kg
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAN
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W11
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

LITHIUM HYDROXIDE (MONOHYDRATE) AR/ACS is not on the REACH Candidate List LITHIUM HYDROXIDE (MONOHYDRATE) AR/ACS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 3; WGK No 7131)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Denmark	

Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
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15.2.	Chemical safety assessment					
No additional information available						

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SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
H302	Harmful if swallowed	
H314	Causes severe skin burns and eye damage	
R22	Harmful if swallowed	
R35	Causes severe burns	
F	Highly flammable	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product