LITHIUM (METAL) EXTRA PURE MSDS

CAS-No.: 7439-93-2 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance

EC-No. : 231-102-5 CAS-No. : 7439-93-2 Product code : 04421 Formula : Li

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Uses advised against

No additional information available

Details of the supplier 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 telephone number**

Emergency number : +91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Substances and Mixtures H260 which, in contact with water, emit flammable gases, Category 1 Skin corrosion/irritation, H314

Category 1B

Full text of H statements : see section 16

07/01/2019 1/10 www.lobachemie.com

Safety Data Sheet

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R14/15 C; R34

Full text of R-phrases: see section 16

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)





GHS02

GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H260 - In contact with water releases flammable gases which may ignite

spontaneously.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P223 - Do not allow contact with water.

P231+P232 - Handle under inert gas. Protect from moisture.

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.

P370+P378 - In case of fire: Use ... to extinguish.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
LITHIUM (METAL) Extra Pure	(CAS-No.) 7439-93-2 (EC-No.) 231-102-5	100

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

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

www.lobachemie.com 07/01/2019 2/10

Safety Data Sheet

First-aid measures after skin contact : Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a POISON CENTER/doctor.

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/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects : Causes severe skin burns and eye damage.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder.

Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of fire, use sand - Never use water.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. No flames, no sparks. Eliminate all sources of

ignition.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

6.2. Environmental precautions

Do not allow water (or moist air) contact with this material.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills

with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Do not allow contact with water.

Precautions for safe handling : Protect from moisture. Handle under inert gas. Do not breathe

dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Wash contaminated

clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Protect from moisture. Store in dry protected location to prevent

any moisture contact.

Incompatible materials : Do not allow contact with water.

www.lobachemie.com 07/01/2019 3/10

Safety Data Sheet

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 properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 6.94 g/mol
Colour : silver white.

Odour : odourless.

Odour threshold : No data available

pH : 12

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 180.5 °C

Freezing point : No data available

Boiling point : 1317 °C

Flash point : No data available

Auto-ignition temperature : 179 °C

Decomposition temperature : No data available

Flammability (solid, gas) : In contact with water releases flammable gases which may ignite spontaneously.

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 0.5 g/cm³

Solubility : Water: Reacts violently with water

Log Pow : No data available

www.lobachemie.com 07/01/2019 4/10

Safety Data Sheet

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

Corrosive vapours. Reacts violently with water.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

In contact with water releases flammable gases which may ignite spontaneously. Highly reactive material. Reacts violently with water.

10.4. Conditions to avoid

Moisture. Water, humidity.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 12

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 12

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

www.lobachemie.com 07/01/2019 5/10

Safety Data Sheet

SECTION 12: Ecological information

12.1. **Toxicity**

No additional information available

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods 13.1.

Product/Packaging disposal : Dispose of contents/container to hazardous or special waste collection point, in recommendations

accordance with local, regional, national and/or international regulation.

Additional information : Do not allow water (or moist air) contact with this material.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. **UN** number

: 1415 UN-No. (ADR) UN-No. (IMDG) : 1415 UN-No. (IATA) : 1415 UN-No. (ADN) : 1415 UN-No. (RID) : 1415

UN proper shipping name

Proper Shipping Name (ADR) : LITHIUM Proper Shipping Name (IMDG) : LITHIUM Proper Shipping Name (IATA) : Lithium Proper Shipping Name (ADN) : LITHIUM Proper Shipping Name (RID) : LITHIUM

Transport document description (ADR) : UN 1415 LITHIUM, 4.3, I, (B/E) Transport document description (IMDG) : UN 1415 LITHIUM, 4.3, I Transport document description (IATA) : UN 1415 Lithium, 4.3, I

www.lobachemie.com 07/01/2019 6/10

Safety Data Sheet

Transport document description (ADN) : UN 1415 LITHIUM, 4.3, I Transport document description (RID) : UN 1415 LITHIUM, 4.3, I

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 4.3 Danger labels (ADR) : 4.3



IMDG

Transport hazard class(es) (IMDG) : 4.3 Danger labels (IMDG) : 4.3



IATA

Transport hazard class(es) (IATA) : 4.3 Hazard labels (IATA) : 4.3



ADN

Transport hazard class(es) (ADN) : 4.3 Danger labels (ADN) : 4.3



RID

Transport hazard class(es) (RID) : 4.3 Danger labels (RID) : 4.3



14.4. Packing group

Packing group (ADR) : I
Packing group (IMDG) : I
Packing group (IATA) : I

www.lobachemie.com 07/01/2019 7/10

Safety Data Sheet

Packing group (ADN) : I
Packing group (RID) : I

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : W2
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0

Packing instructions (ADR) : P403, IBC04

Mixed packing provisions (ADR) : MP2
Tank code (ADR) : L10BN(+)

Tank special provisions (ADR) : TU1, TE5, TT3, TM2

Vehicle for tank carriage : AT
Transport category (ADR) : 1
Special provisions for carriage - Packages : V1

(ADR)

Special provisions for carriage - Loading, : CV23

unloading and handling (ADR)

Special provisions for carriage - Operation : S20

(ADR)

Hazard identification number (Kemler No.) : X423

Orange plates :

X423 1415

Tunnel restriction code (ADR) : B/E EAC code : 4W

- Transport by sea

Limited quantities (IMDG) : 0 Excepted quantities (IMDG) : E0 Packing instructions (IMDG) : P403 Special packing provisions (IMDG) : PP31 IBC packing instructions (IMDG) : IBC04 IBC special provisions (IMDG) : B1 EmS-No. (Fire) : F-G : S-N EmS-No. (Spillage) Stowage category (IMDG) : E Stowage and handling (IMDG) : H1

Segregation (IMDG) : SG35, SG26

MFAG-No : 138

- Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity : Forbidden

(IATA)

PCA packing instructions (IATA) : Forbidden
PCA max net quantity (IATA) : Forbidden

www.lobachemie.com 07/01/2019 8/10

Safety Data Sheet

CAO packing instructions (IATA) : 487 CAO max net quantity (IATA) : 15kg Special provisions (IATA) : A1 ERG code (IATA) : 4W

- Inland waterway transport

Classification code (ADN) : W2 : 0 Limited quantities (ADN) Excepted quantities (ADN) : E0 Equipment required (ADN) : PP, EX, A Ventilation (ADN) : VE01 Provisions for handling and stowage of the : HA08

cargo (ADN)

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : W2 : 0 Limited quantities (RID) Excepted quantities (RID) : E0

: P403, IBC04 Packing instructions (RID)

Mixed packing provisions (RID) : MP2 Tank codes for RID tanks (RID) : L10BN(+)

Special provisions for RID tanks (RID) : TU1, TE5, TT3, TM2

Transport category (RID) Special provisions for carriage – Packages : W1

(RID)

Special provisions for carriage - Loading, : CW23

unloading and handling (RID)

Hazard identification number (RID) : X423

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

LITHIUM (METAL) Extra Pure is not on the REACH Candidate List LITHIUM (METAL) Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to

AwSV; ID No. 7195)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

www.lobachemie.com 07/01/2019 9/10

Safety Data Sheet

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

: The substance is not listed

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling

: The substance is not listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. **Chemical safety assessment**

No additional information available

SECTION 16: Other information

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

Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Water-react. 1	Substances and Mixtures which, in contact with water, emit flammable gases, Category 1
H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
R14/15	Reacts violently with water, liberating extremely flammable gases
R34	Causes burns
С	Corrosive
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

10/10 www.lobachemie.com 07/01/2019