

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
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MATERIAL SAFETY DATA SHEET (MSDS)

LITHIUM METAL LR (COATED)

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : LITHIUM METAL LR (COATED)

Product code : L0122200100
 CAS No: 7439-93-2

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 SUVCHEM
 Chaitanya Tower, 2nd Floor, Office # 206,
 Siddharth Nagar, S.V. Road,
 Goregaon (West), Mumbai - 400062,
 Maharashtra, India.
 Contact: +91 22 28725393 / 94 / 95
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : F; R14/15
 R14
 C; R34

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314
 Physical hazards : Substances and mixtures, which in contact with water, emit flammable gases -
 Category 1 - Danger (CLP : Water-react. 1) H260

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

MATERIAL SAFETY DATA SHEET (MSDS)
LITHIUM METAL LR (COATED)
2. Hazards identification -DSD (continued)
Symbol(s)

Symbol(s)

 : F : Highly flammable
 : C : Corrosive

R Phrase(s)

 : R14/15 : Reacts violently with water, liberating extremely flammable gases.
 : R34 : Causes burns.

S Phrase(s)

 :
 : S43 : In case of fire, use .
 : S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Contains

: Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

 : H260 : In contact with water releases flammable gases which may ignite spontaneously.
 : H314 : Causes severe skin burns and eye damage.

Precautionary statements
• Prevention

 : P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire.
 : P231+P232: Handle under inert gas. Protect from moisture.
 : 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.

• 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.
 : P335+P334: Brush off loose particles from skin. Immerse in cool water, wrap in wet bandages.
 : P370+P378: In case of fire: Use for extinction.

• Storage

 : P402+P404: Store in a dry place. Store in a closed container.
 : 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.

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MATERIAL SAFETY DATA SHEET (MSDS)

LITHIUM METAL LR (COATED)

2. Hazards identification -DSD (continued)

Contains : Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

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 : Preparation.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Pentasodium (carboxylatomethyl) : iminobis(ethylenenitrilo) tetraacetate		583-61-9	209-514-1	----	----	R10 Xn; R22 Xi; R37/38-41 ----- Eye Dam 1 _ H318 Flam. Sol. 2 _ H228 Acute Tox. 4 (oral) _ H302 Skin Irrit. 2 _ H315 STOT SE 3 _ H335

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. Brush off loose particles from skin. Immerse in cool water, wrap in wet bandages.

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.

Ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

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

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

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

MATERIAL SAFETY DATA SHEET (MSDS)
LITHIUM METAL LR (COATED)
5. Fire-fighting measures (continued)

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Sand.
- Unsuitable extinguishing media** : Do not use a heavy water stream.
Do not use extinguishing media containing water.
- Surrounding fires** : Do not use extinguishing media containing water.

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.
- Special precautions** : Do not allow water (or moist air) contact with this material.
- 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.

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

MATERIAL SAFETY DATA SHEET (MSDS)
LITHIUM METAL LR (COATED)
7. Handling and storage (continued)

- Handling** : Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray.
- 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. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Protect from moisture.
- Storage regulation** : Comply with applicable regulations.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Store in dry protected location to prevent any moisture contact.

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
9.1. Information on basic physical and chemical properties

- Physical state at 20 °C** : Solid.
- Colour** : silver white
- Odour** : Odorless
- Odour threshold** : No data available.

MATERIAL SAFETY DATA SHEET (MSDS)
LITHIUM METAL LR (COATED)
9. Physical and chemical properties (continued)

pH value	: Not applicable.
Melting point [°C]	: 180.5°C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 179°C
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 1317°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/cm ³]	: 0,5
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Reacts violently wit
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: >12
Viscosity at 40°C [mm ² /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	: Highly reactive material.
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10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

MATERIAL SAFETY DATA SHEET (MSDS)
LITHIUM METAL LR (COATED)
10. Stability and reactivity (continued)

Hazardous reactions : In contact with water releases flammable gases which may ignite spontaneously.
Reacts violently with water.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.
Moisture.

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.

11. Toxicological information
11.1. Information on toxicological effects

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

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

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.

12. Ecological information
12.1. Toxicity.

MATERIAL SAFETY DATA SHEET (MSDS)
LITHIUM METAL LR (COATED)
12. Ecological information (continued)

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

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.

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

14. Transport information
14.1. Land transport (ADR-RID)

Proper shipping name : LITHIUM
UN N° : 1415
H.I. nr : X423
ADR - Class : 4.3
Labelling - Transport : 4.3 : Contact with water liberates highly flammable gases.

MATERIAL SAFETY DATA SHEET (MSDS)
LITHIUM METAL LR (COATED)
14. Transport information (continued)


ADR - Classification code : W2
 ADR - Group : I
 ADR - Packing instructions : P403
 ADR - Limited Quantity : 0
 ADR - Tunnel code



: B/E : Tank carriage: Passage forbidden through tunnels of category B, C, D y E.
 Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : LITHIUM
 UN N° : 1415
 IMO-IMDG - Class or division : 4.3 : Contact with water liberates highly flammable gases.
 IMO-IMDG - Packing group : I
 IMO- IMDG - Packing instructions : P403
 IMO-IMDG - Limited quantities : None
 IMO-IMDG - Marine pollution : No
 EMS-Nr : F-G S-N

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : LITHIUM
 UN N° : 1415
 IATA - Class or division : 4.3 : Contact with water liberates highly flammable gases.
 IATA - Packing group : I
 IATA - Passenger and Cargo Aircraft : NOT ALLOWED
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 487
 - Cargo only - Maximum Quantity/ : 15 kg
 Packing
 ERG-Nr : 4W

MATERIAL SAFETY DATA SHEET (MSDS)

LITHIUM METAL LR (COATED)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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