

# MATERIAL SAFETY DATA SHEET (MSDS)

# LEAD DIOXIDE LR (LEAD PEROXIDE)

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

1.1. Product identifier

Trade name : LEAD DIOXIDE LR (LEAD PEROXIDE)

**Product code** : L0119405000

Identification of the product : LEAD DIOXIDE EXTRAPURE

CAS No: 1309-60-0

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

**SUVCHEM** Company identification

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 ]

## **Hazards identification -DSD**

## 2.1. Classification of the substance or mixture

#### Classification EC 67/548 or EC 1999/45

Classification : Xn: R20/22

> R33 N: R50-53

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

**Health hazards** : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

Acute toxicity, Inhalation - Category 4 - Warning (CLP: Acute Tox. 4) H332

**Environmental hazards** : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP

: Aquatic Acute 1) H400

Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (

CLP: Aquatic Chronic 1) H410

### 2.2. Label elements



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# 2. Hazards identification -DSD (continued)

#### Labelling EC 67/548 or EC 1999/45

Symbol(s)







Symbol(s) : O : Oxidizing

T: Toxic

N: Dangerous for the environment

R Phrase(s) : R61 : May cause harm to the unborn child.

R20/22: Harmful by inhalation and if swallowed.

R33 : Danger of cumulative effects.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R62: Possible risk of impaired fertility.

S Phrase(s) : S53 : Avoid exposure - obtain special instructions before use.

S45: In case of accident or if you feel unwell, seek medical advice immediately (

show the label when possible).

S60: This material and its container must be disposed of as hazardous waste. S61: Avoid release to the environment. Refer to special instructions/Safety data

sheets.

### Labelling Regulation EC 1272/2008 (CLP)

**Hazard pictograms** 









Signal words : Warning

**Hazard statements** : H302 : Harmful if swallowed.

H332 : Harmful if inhaled. H410 : Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

• **Prevention** : P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P273: Avoid release to the environment. 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 if you feel

unwell.

P391: Collect spillage.

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

comfortable for breathing.

• **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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## 2. Hazards identification -DSD (continued)

## 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 : LEAD DIOXIDE EXTRAPURE

Substance.

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

#### 4. First aid measures

#### 4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest. Call a POISON CENTER or

doctor if you feel unwell. Remove to fresh air and keep at rest in a position

comfortable for breathing.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and

water, followed by warm water rinse.

**Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or

redness persist.

**Ingestion** : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth. Call a

POISON CENTER or doctor if you feel unwell.

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

**Symptoms relating to use** : Danger of serious damage to health by prolonged exposure through inhalation.

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.



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## 5. Fire-fighting measures (continued)

**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.

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.

Avoid release to the environment.

## 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** : Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas,

mist, vapours, spray. Do not eat, drink or smoke when using this product. Wash

thoroughly after handling.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.



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## 7. Handling and storage (continued)

#### 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 - 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 : In case of insufficient ventilation, wear suitable respiratory equipment.

• Hand protection : Wear protective gloves.

Eye protectionOthers: Chemical goggles or safety glasses.: 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: Dark brownOdour: Odorless

Odour threshold : No data available. pH value : Not applicable.

Melting point [°C] : 2900C

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : N/A

Flammability (solid, gas) : N/A

Flash point [°C] : N/A

Boiling point [°C] : N/A



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# 9. Physical and chemical properties (continued)

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 : 8,2 : 9,38 Density [g/cm3] : N/A Relative density, gas (air=1) : N/A Relative density, liquid (water=1) : N/A Solubility in water [% weight] : N/A Solubility in water

Log Pow octanol / water at 20°C : No data available.

Solubility : N/A 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



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# 10. Stability and reactivity (continued)

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

## 11. Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity** 

• Inhalation : Harmful if inhaled.

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

• Ingestion : Harmful if swallowed.

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

#### 12. Ecological information

12.1. Toxicity

**Toxicity information** : Very toxic to aquatic life with long lasting effects.

12.2. Persistence - degradability

**Persistence - degradability** : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.



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### 12. Ecological information (continued)

#### 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.

## 14. Transport information

### 14.1. Land transport (ADR-RID)

Proper shipping name : LEAD DIOXIDE

UN N° : 1872 H.I. nr : 56 ADR - Class : 5.1

**Labelling - Transport** : 5.1 : Oxidizing substances. 6.1 : Toxic substances.





ADR - Classification code : OT2
ADR - Group : III

ADR - Packing instructions : P002 R001 LP002

ADR - Limited Quantity : 5 KG

**ADR - Tunnel code** 



: E : Passage forbidden through tunnels of category E.



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### 14. Transport information (continued)

#### 14.2. Sea transport (IMDG) [English only]

Proper shipping name : LEAD DIOXIDE

UN N° : 1872

**IMO-IMDG - Class or division** : 5.1 : Oxidizing substances. ( 6.1 : Toxic substances. )

IMO-IMDG - Packing group : III

IMO- IMDG - Packing instructions : P002 LP02 IMO-IMDG - Limited quantities : 5 kg IMO-IMDG - Marine pollution : Yes EMS-Nr : F-A S-Q

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

Proper shipping name : LEAD DIOXIDE

UN N° : 1872

IATA - Class or division : 5.1 : Oxidizing substances. ( 6.1 : Toxic substances. )

IATA - Packing group : |||

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 559

instruction

- Passenger and Cargo - Maximum : 25 kg

Quantity/Packing

IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 563
- Cargo only - Maximum Quantity/ : 100 kg

**Packing** 

IATA - Limited Quantites : 10 kg ERG-Nr : 5L

# 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



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In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

## **DISCLAIMER:**

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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