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MATERIAL SAFETY DATA SHEET (MSDS)

MANGANESE (METAL) FLAKES LR

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

1.1. Product identifier

Trade name : MANGANESE (METAL) FLAKES LR

Product code : M0129700500

Identification of the product : MANGANESE (METAL) FLAKES 99%
 CAS No: 7439-96-5

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; R11
 R15

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

Physical hazards : Substances and mixtures, which in contact with water, emit flammable gases -
 Category 1 - Danger (CLP : Water-react. 1) H260
 Flammable solids - Category 1 - Danger (CLP : Flam. Sol. 1) H228

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

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2. Hazards identification -DSD (continued)

Symbol(s)



Symbol(s)

: F : Highly flammable

R Phrase(s)

: R11 : Highly flammable.

R15 : Contact with water liberates highly flammable gases.

S Phrase(s)

: S43 : In case of fire, use .

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Danger

Hazard statements

: H228 : Flammable solid.

H260 : In contact with water releases flammable gases which may ignite spontaneously.

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.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.

P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking.

P280: Wear protective gloves, protective clothing, eye protection, face protection.

• Response

: 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.

• 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.

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

: MANGANESE (METAL) FLAKES 99%

Substance.

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3. Composition/information on ingredients (continued)

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.
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Brush off loose particles from skin. Immerse in cool water, wrap in wet bandages.
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.

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

Symptoms relating to use	: Not expected to present a significant hazard under anticipated conditions of normal use. Not expected to present a significant hazard under anticipated conditions of normal use.
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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).
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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.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Flammable class	: Flammable solid.
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.
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5. Fire-fighting measures (continued)

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.

Technical measures : Use special care to avoid static electric charges.

Special precautions : Remove ignition sources. No naked lights. No smoking.

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

Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Handle empty containers with care because residual vapours are flammable. Protect from moisture. Handle under inert gas. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment.

Special precautions : No naked lights. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

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7. Handling and storage (continued)

- Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. Keep in fireproof place. Protect from moisture. Ground/bond container and receiving equipment. Store in a dry place. Keep away from any possible contact with water, because of violent reaction and possible flash fire.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

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.
 - **Eye protection** : Chemical goggles or safety glasses.
 - **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** : Bright silver grey
- Odour** : N/A
- Odour threshold** : No data available.
- pH value** : Not applicable.
- Melting point [°C]** : 1260 °C
- Decomposition point [°C]** : N/A
- Critical temperature [°C]** : N/A
- Auto-ignition temperature [°C]** : N/A
- Flammability (solid, gas)** : N/A
Flammable solid.
- Flash point [°C]** : N/A
- Boiling point [°C]** : 1900°C

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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	: N/A
Density [g/cm ³]	: 7,3
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Reacts with water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
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	: Not established.
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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

Hazardous reactions	: In contact with water releases flammable gases which may ignite spontaneously.
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10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.
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10.5. Incompatible materials

MATERIAL SAFETY DATA SHEET (MSDS)
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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.
May release flammable gases.

11. Toxicological information
11.1. Information on toxicological effects
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 : Based on available data, the classification criteria are not met.

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

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

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12. Ecological information (continued)

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 : Handle empty containers with care because residual vapours are flammable.

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

Proper shipping name : METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.
UN N° : 3208
H.I. nr : --
ADR - Class : 4.3
Labelling - Transport : 4.3 : Contact with water liberates highly flammable gases.



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



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14. Transport information (continued)

: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.
 UN N° : 3208
 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 : METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.
 UN N° : 3208
 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

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.
 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

Chemical Safety Assessment : It has not been carried out.

MATERIAL SAFETY DATA SHEET (MSDS)

MANGANESE (METAL) FLAKES LR

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

DISCLAIMER:

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