

#### CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

# MATERIAL SAFETY DATA SHEET (MSDS)

### **MAGNESIUM METAL POWDER**

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

1.1. Product identifier		
Trade name	: MAGNESIUM METAL POWDER	
Product code Identification of the product	: M0125500500 : Magnesium powder (pyrophoric) CAS No: 7439-95-4 EC No :231-104-6 Annex No :012-001-00-3	
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	
1.4. Emergency telephone number	Email ID: info@suvchem.com/care@suvchem.com	
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; R15-R17

### 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 -<br/>Category 1 - Danger (CLP : Water-react. 1) H260<br/>Pyrophoric solids - Category 1 - Danger (CLP : Pyr. Sol. 1) H250

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) : R15 : Contact with water liberates highly flammable gases. R17 : Spontaneously flammable in air. : S2 : Keep out of the reach of children. S Phrase(s) S7/8 : Keep container tightly closed and dry. S43 : In case of fire, use . Contains : Magnesium powder (pyrophoric) Labelling Regulation EC 1272/2008 (CLP) Hazard pictograms Signal words : Danger Hazard statements : H250 : Catches fire spontaneously if exposed to air. H260 : In contact with water releases flammable gases which may ignite spontaneously. **Precautionary statements** : P102: Keep out of reach of children. General P103: Read label before use. P101: If medical advice is needed, have product container or label at hand. Prevention : P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire. P222: Do not allow contact with air. P231+P232: Handle under inert gas. Protect from moisture. P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking. P280: Wear protective gloves, protective clothing, eye protection, face protection. : P335+P334: Brush off loose particles from skin. Immerse in cool water, wrap in wet Response bandages. P370+P378: In case of fire: Use for extinction. : P422: Store contents under inert gas. (See information supplied by the Storage manufacturer) P402+P404: Store in a dry place. Store in a closed container. : P501: Dispose of this material and its container to hazardous or special waste Disposal considerations collection point, in accordance with local, regional, national and/or international regulation. Contains : Magnesium powder (pyrophoric)

2.3. Other hazards



## MATERIAL SAFETY DATA SHEET (MSDS) MAGNESIUM METAL POWDER

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

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.

Substance / Preparation	: Magnesium powder (pyrophoric)					
	An	CNo :231-104 nex No :012-0 bstance.	-			
Substance name Magnesium powder (pyrophoric) :	Contents 100 %	<b>CAS No</b> 7439-95-4	<b>EC No</b> 231-104-6	Annex No 012-001-00-3	REACH Ref.	Classification F; R15-R17
						Pyr. Sol. 1 _ H250 Water-react. 1 H260

### 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. Immerse in cool water, wrap in wet bandages. Brush off loose particles from skin.
Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion	: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.
4.2. Most important symptoms and Symptoms relating to use	<ul> <li>d effects, both acute and delayed</li> <li>: Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> </ul>
4.3. Indication of any immediate m	edical attention and special treatment needed

### 5. Fire-fighting measures

### 5.1. Extinguishing media



## MATERIAL SAFETY DATA SHEET (MSDS) MAGNESIUM METAL POWDER

5. Fire-fighting measures (continued)		
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.	
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	: Catches fire spontaneously if exposed to air. Do not allow contact with air.		
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



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### **MAGNESIUM METAL POWDER**

7. Handling and storage (continue	ad)		
Handling	<ul> <li>Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.</li> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>Handle under inert gas. Protect from moisture. Do not allow contact with air. Keep away from any possible contact with water, because of violent reaction and possible flash fire.</li> </ul>		
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour.		
Special precautions	: No naked lights. No smoking.		
7.2. Conditions for safe storage, in	cluding any incompatibilities		
Storage	<ul> <li>Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.</li> <li>Store contents under inert gas. (See information supplied by the manufacturer) Protect from moisture. Keep away from any possible contact with water, because of violent reaction and possible flash fire.</li> </ul>		
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.		
<u>7.3. Specific end use(s)</u>			
Specific end use(s)	: None.		
8. Exposure controls/personal pro	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	: silver white



## MATERIAL SAFETY DATA SHEET (MSDS) MAGNESIUM METAL POWDER

### 9. Physical and chemical properties (continued)

Odour	: Odorless
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 648 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 4730C
Flammability (solid, gas)	: Catches fire spontaneously if exposed to air. N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 11000C
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/cm3]	: 1,74
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Insoluble in water
Solubility in water	: N/A
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



## MATERIAL SAFETY DATA SHEET (MSDS) MAGNESIUM METAL POWDER

10. Stability and reactivity (continued)			
Chemical stability	: Stable under recommended storage conditions.		
10.3. Possibility of hazardous reactions			
Hazardous reactions	: In contact with water releases flammable gases which may ignite spontaneously.		
10.4. Conditions to avoid			
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Do not allow contact with air.		
10.5. Incompatible materials			
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	: Based on available data, the classification criteria are not met.
• Dermal	: Based on available data, the classification criteria are not met.
<ul> <li>Ingestion</li> </ul>	: 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



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12. Ecological information (contin	
Toxicity information	: Not established.
12.2. Persistence - degradability	
Persistence - degradability	: Biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential	: Not established.
<u>12.4. Mobility in soil</u>	
Mobility in soil	: Not established.
12.5. Results of PBT and vPvB ass	sessment
Results of PBT and vPvB assessn	nent : 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. Disposal considerations <u>13.1. Waste treatment methods</u>	
	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
13.1. Waste treatment methods	: 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.
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<u>13.1. Waste treatment methods</u> General	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.
<u>13.1. Waste treatment methods</u> General Special precautions	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.
13.1. Waste treatment methods         General         Special precautions         14. Transport information	<ul> <li>local/national regulations.</li> <li>Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>MAGNESIUM or MAGNESIUM ALLOYS with more than 50% magnesium in pellets</li> </ul>
13.1. Waste treatment methods         General         Special precautions         14. Transport information         14.1. Land transport (ADR-RID)	<ul> <li>local/national regulations.</li> <li>Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> <li>Handle empty containers with care because residual vapours are flammable.</li> </ul>
13.1. Waste treatment methods         General         Special precautions         14. Transport information         14.1. Land transport (ADR-RID)         Proper shipping name	<ul> <li>local/national regulations.</li> <li>Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> <li>Handle empty containers with care because residual vapours are flammable.</li> </ul>



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### **MAGNESIUM METAL POWDER**

### 14. Transport information (continued)



: F3

- ADR Classification code ADR - Group
- ADR Packing instructions
- ADR Limited Quantity
- ADR Tunnel code

: III : P002 R001 LP002 : 5 KG



: E : Passage forbidden through tunnels of category E.

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

Proper shipping name	: MAGNESIUM or MAGNESIUM ALLOYS with more than 50% magnesium in pellets, turnings or ribbons
UN N°	: 1869
IMO-IMDG - Class or division	: 4.1 : Flammable solids, self-reactive substances and desensitized explosives.
IMO-IMDG - Packing group	: 111
IMO- IMDG - Packing instructions	: P002 LP02
IMO-IMDG - Limited quantities	: 5 kg
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-G S-G

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

Proper shipping name	: MAGNESIUM or MAGNESIUM ALLOYS with more than 50% magnesium in pellets, turnings or ribbons
UN N°	: 1869
IATA - Class or division	: 4.1 : Flammable solids, self-reactive substances and desensitized explosives.
IATA - Packing group	: 111
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 446
- Passenger and Cargo - Maximum Quantity/Packing	: 25 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 449
- Cargo only - Maximum Quantity/ Packing	: 100 kg



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### **MAGNESIUM METAL POWDER**

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.
- 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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