

MATERIAL SAFETY DATA SHEET**Product Name:** Magnesium metal turning**CAS No.:** 7439-95-4**Version:** 0**1. Identification**

Product Code : 90447
Company Name : Advent Chembio Private Limited
Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR
ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail : info@adventchembio.com
WEBSITE : www.adventchembio.com
Company Phone Number : 022-27690837

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
MAGNESIUM METAL TURNING	7439-95-4	99-100%

3. Hazards Identification**Hazard classification****Physical hazards**

Self-heating substances and mixtures : Category 1
Substances and mixtures, which in : Category 1
contact with water, emit flammable
gases

Labels elements**Hazard symbol**

Signal word : Danger
Hazard statement : In contact with water releases flammable gas.
Self-heating; may catch fire.

Precautionary statement

Prevention : Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Do not allow contact with air. Wear protective gloves/protective
clothing/eye protection/face protection. Keep cool. Protect from
sunlight .

Response : Brush off loose particles from skin. Immerse in cool water/wrap in
wet bandages.

Storage : Protect from sunlight. Maintain air gap between stacks/pallets. Store
away from other materials.

Disposal : Dispose of contents/container to an appropriate treatment and
disposal facility in accordance with applicable laws and regulations,

MATERIAL SAFETY DATA SHEET**Product Name:** Magnesium metal turning**CAS No.:** 7439-95-4**Version:** 0

and product characteristics at time of disposal.

Other hazards which do not result in GHS classification : None.**4. First Aid Measures**

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration.
- Skin contact** : Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.
- Most important symptoms/effects, acute and delayed** : May cause skin and eye irritation.
- Indication of immediate medical attention and special treatment needed** : Treat symptomatically. Symptoms may be delayed.

MATERIAL SAFETY DATA SHEET**Product Name:** Magnesium metal turning**CAS No.:** 7439-95-4**Version:** 0**5. Fire fighting measures**

- General fire hazards** : In case of fire and/or explosion do not breathe fumes. Dust may form explosive mixture with air.
- Suitable (and unsuitable) extinguishing media**
- Suitable extinguishing media** : Dry chemical.
- Unsuitable extinguishing media** : Water, CO2 or Foam
- Specific hazards arising from the chemical** : Material may react violently with water. Contact with water liberates flammable gas. Self-heating; may catch fire.
- Special protective equipment and precautions for firefighters**
- Special fire fighting procedures** : Fight fire from a protected location. Move containers from fire area if you can do so without risk.
- Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.
- Methods and material for containment and cleaning up** : Eliminate all ignition sources if safe to do so. Avoid water on spilled material or leaking containers. Pick up with vacuum or absorbent solid, store in closed container for disposal. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
- Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
- Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

MATERIAL SAFETY DATA SHEET

Product Name: Magnesium metal turning

CAS No.: 7439-95-4

Version: 0

7. Handling and Storage

- Precautions for safe handling** : DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling.
- Conditions for safe storage, including any incompatibilities** : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

8. Exposure Controls Personal Protection**Control parameters**

Occupational exposure limits : None of the components have assigned exposure limits.

Appropriate engineering controls : No data available.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles) and a face shield.

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.

Hygiene measures : Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using the product. Avoid contact with eyes, skin, and clothing.

MATERIAL SAFETY DATA SHEET**Product Name:** Magnesium metal turning**CAS No.:** 7439-95-4**Version:** 0**9. Physical and Chemical Properties**

Appearance	:	Silver Solid.
Odor	:	Odorless
pH	:	No data available.
Melting point/freezing point	:	651 °C
Initial boiling point and boiling range	:	1,100 °C
Flash Point	:	500 °C
Vapor pressure	:	0.13 kPa (621 °C)
Vapor density	:	No data available.
Relative density	:	1.74 (20 °C)
Solubility in water	:	Insoluble in water
Solubility (other)	:	No data available.
Formula	:	Mg
Molecular Weight	:	24.31 g/mol

10. Stability and Reactivity

Reactivity	:	Reacts violently with water, liberating extremely flammable gases. Contact with acid liberates flammable material.
Chemical stability	:	Material is stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerization does not occur.
Conditions to avoid	:	Moisture. Heat, sparks, flames. Contact with incompatible materials.
Incompatible materials	:	Strong oxidizing agents. Acids. Cyanides.
Hazardous decomposition products	:	By heating and fire, toxic vapors/gases may be formed. Contact with water liberates flammable gas.

11. Toxicological Information**Information on likely routes of exposure**

Ingestion	:	May cause irritation of the gastrointestinal tract.
Inhalation	:	May cause irritation to the respiratory system.
Skin contact	:	May cause irritation.
Eye contact	:	May cause temporary eye irritation.

Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

Oral Product	:	No data available.
Dermal Product	:	No data available.
Inhalation Product	:	No data available.
Repeated dose toxicity Product	:	No data available.
Skin corrosion/irritation Product	:	May cause skin irritation.
Serious eye damage/eye irritation	:	May irritate eyes.

MATERIAL SAFETY DATA SHEET**Product Name:** Magnesium metal turning**CAS No.:** 7439-95-4**Version:** 0**Product****Respiratory or skin sensitization Product** : Not a skin sensitizer.**Carcinogenicity Product** : This substance has no evidence of carcinogenic properties.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE** : No carcinogenic components identified**US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE** : No carcinogenic components identified**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050** : No carcinogenic components identified.**Germ cell mutagenicity****In vitro Product** : No mutagenic components identified**In vivo Product** : No mutagenic components identified**Reproductive toxicity Product** : No components toxic to reproduction**Specific target organ toxicity - single exposure Product** : No data available.**Specific target organ toxicity - repeated exposure Product** : No data available.**Aspiration hazard Product** : Not classified.**Other effects** : None known.**12. Ecological Information****Ecotoxicity****Acute hazards to the aquatic environment :****Fish Product** : No data available.**Aquatic invertebrates Product** : No data available.**Specified substance(s):** : LC 50 (Scud (Gammarus lacustris), 96 h): 64.7 mg/l Mortality**MAGNESIUM METAL****Chronic hazards to the aquatic environment :****Fish Product** : No data available.**Aquatic invertebrates Product** : No data available.**Toxicity to Aquatic Plants Product:** : No data available.**Persistence and degradability****Biodegradation Product** : The product is not expected to be biodegradable.**BOD/COD ratio Product** : No data available.**Bioaccumulative potential****Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.**Product****Partition coefficient n-octanol / water (log Kow) Product** : No data available.**Mobility in soil** : No data available.

MATERIAL SAFETY DATA SHEET

Product Name: Magnesium metal turning

CAS No.: 7439-95-4

Version: 0

Other adverse effects : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1869	Magnesium	4.1	III	No
IMDG	UN 1869	Magnesium	4.1	III	No
IATA	UN 1869	Magnesium	4.1	III	No

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.


16. Other Information

NFPA Hazard ID



■ Flammability
■ Health
■ Reactivity
 Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

MATERIAL SAFETY DATA SHEET**Product Name:** Magnesium metal turning**CAS No.:** 7439-95-4**Version:** 0 **Water reactive****Issue Date :**01/08/2014**Version : 0**

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