Section 1

Chemical Product and Company Information

Page Eleles



CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300
For laboratory use only.
Not for drug, food or household use.

Product

MAGNESIUM METAL, TURNINGS

Synonyms

Magnesium

Section 2

Hazarda Identification

Signal word: DANGER
Pictograms: GHS02
Target organs: None known



GHS Classification: Flammable solid (Category 1) Self heating substance (Category 2) Water reactivity (Category 2)

GHS Label Information: Hazard statement:

H228; Flammable solid.

H252: Self-heating in large quantities; may catch fire. H261: In contact with water releases flammable gas. Precautionary statement

P210: Keep away from heat/sparks/open flames/hot surfaces. No amoking,

P223: Do not allow contact with water.

P231+P232: Handle under inert gas. Protect from moisture.

P235+P410; Keep cool. Protect from sunlight.

P240: Ground/bond container and receiving equipment.

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

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

P370+P378: In case of fire: Use graphite powder, soda ash, powdered sodium chloride, or an appropriate metal-fire-extinguishing dry powder to extinguish.

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

P420: Store away from other materials.

P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

 Section 3
 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %
 EINECS

 Magnesium
 7439-95-4
 99.8%
 231-104-6

Section 4 First Aid Measures

INGESTION: CAUSES BURNING SENSATION IN THE MOUTH. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED, CAUSES RESPIRATORY TRACT IRRITATION, Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE BURNS AND CORNEAL ABRASIONS. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower cyclids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE IRRITATION. Remove contaminated dothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Sultable Extinguishing Media: Use only graphite powder, soda ash, powdered sodium chloride, or an appropriate metal-fire-extinguishing dry powder. DO NOT use water, carbon dioxide, or foam!

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: When heated in eir to a temperature near its melting point, magnesium may ignite and burn. Dangerous in the form of dust or flakes and when exposed to fiame or by violent chemical reaction with undizing agents. Magnesium may react with moisture or acids to evolve hydrogen gas, which is a highly dangerous fire or explosion hazard.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Using non-sparking tools, sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

KM00882 MAGNESIUM TURNINGS

Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and doffning. Do not inhale dusts. Use with adequate ventilation, Avoid ingestion. Wash thoroughly after handling. Remove and wash dothing before

Conditions for Safe Storage; Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources. Keep away from water and moisture.

Section 8

Exposure Controls / Personal Protection

Exposure Limits:

Chemical Name Madriesium

ACGIH (TLV) Not established

Evaporation rate (= 1): Data not available

Vapor pressure (mm Hg): 1 mm @ 621°C Vapor density (Air = 1): Data not available

Solubility(les): Negligible in water

Flammability (solid/gas): Data not available.

Relative density (Specific gravity): 1.74 @ 20°C

Explosion limits: Lower / Upper: Data not available

OSHA (PEL) Not established

Partition coefficient: Data not available

Viscosity: Data not available.

Molecular formula: Mg

Molecular weight: 24.31

Auto-ignition temperature: 510°C (950°F)

Decomposition temperature: Data not available.

NIOSH (REL) Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Physical & Chemical Properties

Appearance: Solid, Silvery gray, metal turnings Odor: No odor.

Odor threshold: Data not available.

pH: Data not available.

Melting / Freezing point: 651°C (1203.8°F)

Boiling point 1110°C (2030°F) Flash point: 636°C (1175°F)

Stability & Reactivity

Section 10 Chemical stability: Stable

Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition,

Incompatible materials: Magnesium will react with water and acids to release hydrogen. Also hazardous with chlorine, bromine, iodine and oxidizing agents

Hazardous decomposition products: Hydrogen.

Section 11

Toxicological Information

Acute toxicity: Data not available

Skin corrosion/irritation: Date not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Date not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause cough, sore throat, shortness of breath.

Ingestion: Ingestion causes burning sensation in the mouth and may cause abdominal pain and diarrhea.

Skin: Particles imbedded in the skin may cause eruptions. Molten magnesium may cause serious skin burns.

Eyes: Contact with eyes may cause irritation and comeal scratches. Avoid direct viewing of magnesium fires as eye injury may result, use fire glasses.

Signs and symptoms of exposure: Exposure to magnesium oxide fume subsequent to burning can result in metal fume fever. The temporary symptoms can include fever, chills, nausea, vomiting and muscular pain. Onset of symptoms occurs 4-12 hours after exposure. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: OM2100000

Toxicity to fish: No data available

Ecological Information Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available Mobility in soil: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 12

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Transport Information (US DOT / CANADA TDG) Section 14

UN/NA number: UN1869 Hazard class: 4.1

Shipping name: Magnesium

Packing group: III

Reportable Quantity: No

Marine pollutant: No

Exceptions: Limited quantity equal to or less than 5 Kg

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Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the inventory list.

Component TSCA

CERLCA (RQ)

RCRA code

WHMIS Classification

Magnesium

Listed

Not listed

D001

Listed

DSL

NDSL Not listed

54 B6

Section 16

Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make indexess dent determinations of suitability and completeness of information from all sources to assure proper use of these muterials and the safety and health of employees. NTP: National Textoology Proper LARC International Agency for Research on Cancer, OSHA, Occupanional Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE. Single Exposure. RE: Repeated Exposure. ERG: Emergency Response Guidebook.

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