Mallinckrodt

Material Safety Data

Emergency Phone Number: 314-982-5000

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MAGNESIUM METAL

PRODUCT IDENTIFICATION:

Synonyms: Magnesium ribbon, magnesium powder, magnesium

Formula CAS No.: 7439-95-4

Molecular Weight: 24.30

Chemical Formula: Mg

Hazardous Ingredients: Not applicable.

PRECAUTIONARY MEASURES

MAY CAUSE IRRUTATION. DANGERI FLAMMABLEI

Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

In case of contact, immediately flush skin or eyes with plenty of EMERGENCY/FIRST AID

water for at least 15 minutes.

DOT Hazard Class: Flammable Solid

SECTION 1 Physical Data

Appearance: Silver solid.

Odor: Odorless.

Solubility: Insoluble in water.

Specific Gravity: 1.74

Vapor Pressure (mm IIg): No information found.

SECTION 2 Fire and Explosion Information

magnesium may ignite and burn. When heated in air to a temperature near its melting point,

cause an explosion. Water used on molten magnesium will produce hydrogen gas and may the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration 0.030 grams/liter. Fine dust dispersed in air in sufficient concentrations, and in

Fire Extinguishing Media:

Melting flux, dry sand, or metal extinguishing powders. Do not use water. Use of water on molten magnesium will produce hydrogen gas and may cause an explosion.

Special Information:

NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive in the event of a fire, wear full protective clothing and

SECTION 3 Reactivity Data

Stability:

Stable under ordinary conditions of use and storage. Slowly

oxidizes in moist air.

Boiling Point: 1100°C (2030°F)

Melting Point: 649°C (1200°F)

Vapor Density (Air *1): No information found.

Evaporation Rate! No information found.

Hazardous Polymerization:

This substance does not polymerize.

Toxic gases and vapors may be released if involved in a fire.

Hazardous Decomposition Products:

oxides, carbonates, cyanides, chlorinated hydrocarbons, sulfates Magnesium reacts dangerously with many substances, including Incompatibilities:

acids, and other metals. Please refer to the NFPA publication

"Fire Protection Guide on Hazardous Materials" most recent

edition for details. Reacts with acids to form hydrogen gas.

SECTION 4 Leak/Spill Disposal Information

incompatible materials. Spills: Sweep up and containerize for reclamation or salvage may be disposed in an approved waste generate dust. Disposal: Whatever cannot be saved for Fire Hazard, reclamation, salvage, or disposal in a method that does not Remove all sources of ignition and

Ensure compliance with local, state and federal regulations.

NFPA Ratings: Health: 0 Flammability: 1 Reactivity: 2 Other: Water reactive

SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:

Inhalation of dusts may irritate the respiratory tract and may cause metal fume fever. Symptoms may include coughing, chest pain, fever, and leukocytosis.

Ingestion:

May cause abdominal pain and diarrhea.

Skin Contact:

Particles embedded in the skin may cause eruptions. Molten magnesium may cause serious skin burns.

Eye Contact:

May cause irritation.

Chronic Exposure:

No information found.

Aggrevation of Pre-existing Conditions: Existing wounds contaminated with magnesium are very slow to heal.

FIRST AID

Inhalation:

Remove to fresh air, Get medical attention for any breathing difficulty.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Exposure:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Exposure:

Wash eyes with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

TOXICITY DATA (RIECS, 1982)

No LD50/LC50 information found relating to normal routes of occupational exposure.

SECTION 6 Occupational Control Measures

Airborne Exposure Limits:
None established.

Ventilation System:

A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

Personal Respirators: (NIOSH Approved)
For conditions of use where exposure to the dust is apparent, a
dust/mist respirator may be worn. For emergencies, a
self-contained breathing apparatus may be necessary.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 7 Storage and Special Information

Keep in tightly closed container. Store in a cool, dry, ventilated area. Protect against physical damage. Store finely divided chips or shavings in detached fire-resistant building, protected from moisture and away from chlorine, bromine, iodine, acids, and all possible sources of ignition. Heavier sections may be stored in the open.

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