Material Safety Data Mallinckrodt

Emergency Phone Number: 314-982-5000

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PRODUCT IDENTIFICATION: ZINC METAL POWDER

Synonyms: Powdered zinc; blue powder

Formula CAS No.: 7440-66-6

Chemical Formula: Zn Molecular Weight: 65.37

Hazardous Ingredients: Not applicable

PRECAUTIONARY MEASURES

WARNING! HARMITUL IF SWALLOWED OF COMBUSTIBLE. MAY FORM COMBUSTIBLE DUST

CONCENTRATIONS IN AIR.

Avoid breathing dust. Wash thoroughly after handling. Use with adequate ventilation. Keep container closed. Keep away from heat and flame.

EMERGENCY/FIRST AID

difficult, give oxygen. In all cases call a physician. If not breathing, give artificial respiration. If breathing is water and sticking finger down throat. Never give anything by If swallowed, induce vomiting immediately by giving two glasses of mouth to an unconscious person. If inhaled, remove to fresh air.

DOT Hazard Class: Flammable Solid

SECTION 1 Physical Data

Appearance: Gray or bluish-gray powder.

Odor: Odoriess

Solubility: Insoluble in water.

Boiling Point: 907°C (1665°F)

Melting Point: 419°C (787F)

Specific Gravity: 7.14

Vapor Pressure (mm Hg): 1 at 487°C (909°F) Vapor Density (Air=1): No information found.

Evaporation Rate: No information found

SECTION 2 Fire and Explosion Information

hydrogen gas upon contact with acids or alkali hydroxides. spontaneously and ignite on exposure to air. Releases flammable temperatures. Autoignition temperatures are approximately 680°C Zinc powder is not pyrophoric but will burn in air at elevated (dust cloud) or 460°C (layer). Bulk dust in damp state may heat

Explosion:

the presence of an ignition source is a potential dust explosion Fine dust dispersed in air in sufficient concentrations, and in

Fire Extinguishing Media:

Smother with a suitable dry powder (sodium chloride, magnesium

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 Date

Stability

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

ozidizes and condenses in air to form zinc fume. temperature. Zinc metal, when metted, produces zinc vapor which Hydrogen in moist air, zinc oxide with oxygen at high

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

Dangerous or potentially dangerous with strong oxidizing agents, Zinc powder can react violently with sulfur and halogens lower molecular weight chlorinated hydrocarbons, strong acids and

SECTION 4 Leak/Spill Disposal Information

in a RCRA approved facility. that does not disperse zinc powder in the air and place the dust/mist respirators. Sweep or vacuum up the spill in a manner Clean-up personnel require protective clothing, goggles and area of spill. Substance may be pyrophoric and self-ignite. Remove all sources of ignition and provide mild ventilation in zinc in a closed container for recovery or disposal. Dispose

Ensure compliance with local, state and federal regulations.

SECTION 5 Health Hazard Information

EXPOSURE / HEALTH EFFECTS

Inhalation:

sneezing, coughing. When heated, the fumes are highly toxic and inhaling an inert dust; possible difficulty in breathing, irritation. The effects may be expected to resemble those of No adverse effects expected but dust may cause mechanical may cause fume fever.

ngestion:

of reaction with gastric juice to produce zinc chloride. Pain, stomach cramps and nausea could occur in aggravated cases disturbances, due both to mechanical effects and the possibility Extremely large oral dosages may produce gastrointestinal

Skin Contact:

No adverse effects expected but dust may cause mechanical uritation.

Eye Contact:

No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure:

No adverse health effects expected

Aggrevation of Pre-existing Conditions:

function may be more susceptible to the effects of the substance Persons with pre-existing skin disorders or impaired respiratory

B. FIRST AID

Inhalation:

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

Ingestion:

anything by mouth to an unconscious person. glasses of water and sticking finger down throat. Never give If swallowed, induce vomiting immediately by giving two

Skin Exposure:

irritation develops. Wash exposed area with soap and water. Get medical advice if

Eye Exposure:

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

C. TOXICITY DATA (RTECS, 1982)

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

SECTION 6 Occupational Control Measures

Smg/m³ (TWA). 10mg/m³ (STEL) -ACGIH Threshold Limit Value (TLV): for zinc oxide fume. Airborne Exposure Limits:

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.

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

Skin Protection:

Wear protective gloves and clean body-covering clothing

Eye Protection:

when working with this material. Maintain eye wash fountain and quick-drench facilities in work area. Use chemical safety goggles. Contact lenses should not be worn

SECTION 7 Storage and Special Information

physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Keep in a tightly closed container. Protect from

ZINME