

600 11

Product ZINC METAL, MOSSY

Chemical Synonyms Mossy Zinc

Formula Zn

Units/Size 500 grams, 2.5 Kg.

C.A.S. No. 7400-80-6

Principal Hazardous Component(s) Zinc Metal, Mossy

Chemical 800-424-9300

Health 0

Fire 1

Reactivity 2

HAZARD RATING

Health	0
Fire	1
Reactivity	2

TLV Units

TLV Units	100X	None established
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SECTION I - PHYSICAL AND CHEMICAL PROPERTIES

Reacts with acids to liberate hydrogen gas - A FLAMMABLE AND EXPLOSIVE GAS.

Melting Point (°F) 419°C (787°F)

Boiling Point (°F) 907°C (1665°F)

Vapor Pressure mm Hg 1 mm at 487°C

Vapor Density (air = 1) 2.26

Solubility in Water Insoluble

Appearance and Odor Silvery metal, mossy; no odor.

Flash Point Method Used Non-Flammable (NA)

Extinguisher Smother with dry sand, earth or soda ash, dry powder (ABC).

SECTION II - TOXICOLOGICAL INFORMATION

Specific Gravity (H₂O = 1) 7.14

Percent Volatile by Volume (%) Non-volatile (NA)

Evaporation Rate Non-volatile (NA)

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits in Air None known

% by Volume Unknown

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus. When heated, the fumes are highly toxic, causing "fume fever."

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dust forms explosive mixtures with air. Bulk dust in damp state may heat spontaneously and ignite on exposure to air. Contact with acids and alkali hydroxide (sodium hydroxide, potassium hydroxide, calcium hydroxide, etc.) results in evolution of hydrogen.

SECTION IV - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Store in a cool, dry, ventilated place. Separate from acids, halogenated hydrocarbons and strong oxidizing agents. Protect from moisture. Wash thoroughly after handling.

Other Precautions

Read label on container before using

SECTION V - REGULATORY INFORMATION

MSDS No. Effective Date

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805 HICKORY LAKE MANSFIELD OHIO 44905

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U.S. Department of Labor "essentially similar" to form OSHA-20

Threshold Limited Value

None established. (ACGIH 100-84)

Effects of Overexposure

Inhalation: Dust may cause upper respiratory tract irritation. When heated above 400° C, inhalation of the fumes may lead to metal fume fever. Mild to severe symptoms of chills and fever, profuse perspiration, weakness, nausea and vomiting can occur.

SKIN: May cause eye irritation.

SKIN: Prolonged or repeated skin contact may cause skin irritation.

EMERGENCY: Remove from exposure, treat symptomatically and get medical attention, if symptoms persist.

First Aid: Immediately flush eyes with plenty of water. If irritation develops or persists, get medical attention.

SKIN: Thoroughly wash exposed area with soap and water.

Emergency and First Aid Procedures

000901

SECTION VI - PHYSICAL AND CHEMICAL PROPERTIES

Stability Unstable

Conditions to Avoid Excessive temperature and heat. Air and moisture.

Incompatibility (Materials to avoid) Strong oxidizers, acids, alkalis.

Hazardous Decomposition Products

oxides of zinc may be present. Zinc fumes.

Hazardous Polymerization Will Not Occur

Conditions to Avoid

Not applicable

SECTION VII - SAFETY AND HEALTH INFORMATION

Steps to be taken in case material is released or spilled

Scrape up for reuse or place in a suitable container for disposal.

Waste Disposal Method

dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII - SPECIAL PRECAUTIONS

Respiratory Protection

None needed in normal laboratory handling. If dust conditions prevail, wear a NIOSH-approved dust mask.

Ventilation

Local Exhaustion: Not required

General: Recommended

Protective Gloves

Suitable to protect against skin

Eye Protection

Chemical safety glasses.

SECTION IX - REGULATORY INFORMATION

Other Precautions

Read label on container before using

SECTION X - LABORATORY USE ONLY

Not for drug, food or household use. Keep out of reach of children

Rev. No. **Date** **Approved** **Chemical Safety Coordinator**

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