

http://www.samaterials.com

Stanford Advanced Materials

We not only sell products, we provide satisfactions.
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Current Version: 2.0 Revision Date: Sep 5, 2012

Material Safety Data Sheet

Identity: Zinc Formula: Zn

SECTION I - GENERAL INFORMATION

Manufacturer: Stanford Advanced Materials (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight: 65.39

<u>CAS # OSHA PEL ACGIH TLV %</u> 7440-66-6 5mg/m³ 5mg/m³ >99.9

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 907.0 $^{\circ}$ Specific Gravity (H₂O=1): 7.12

Melting Point: 419.5 ℃ Vapor Pressure (vs. air or mmHg): N/A

Evaporation Rate: N/A Vapor Density (vs. air=1): N/A

Solubility in water: Insoluble, reacts with water Percent Volatile: N/a

Appearance and odor: Grey metallic particles, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Flash Point: N/A Explosive Limits: LEL: N/A UEL: N/A

Extinguishing Media:

Use suitable extinguishing agent for surrounding material and type of fire

Special Fire Fighting Procedures:

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

Unusual Fire and Explosion Hazards:

Bulk dust in contact with water emits hydrogen. The heat in this reaction may ignite the hydrogen. Explosive conditions may exist in confined spaces. Dry dust may form explosive mixture in air. Zinc oxide may result from combustion of zinc dust

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): Water and moisture

Incompatibility: alkalis, acids and water



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Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: Will not occur

Conditions to avoid (hazardous polymerization): None

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? No Eyes? No Ingestion? Yes Other? No

Health Hazards (Acute and Chronic):

Inhalation: May cause tightness is chest, nausea, and dry throat

May cause respiratory tract irritation with nasopharynitis and laryngitis

Ingestion: May cause metallic taste, cough, dizziness, fever and chills

Skin: No health effects recorded

Eye: No health effects recorded

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Medical Conditions Aggravated by Exposure: Pre-existing respiratory disorders

Emergency and First Aid Procedures:

Inhalation: Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is difficult; seek

medical attention

Ingestion: Give 1-2 glasses of milk or water and induce vomiting, seek medical attention. Never induce

vomiting or give anything by mouth to an unconscious person

Skin: Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and

seek medical attention if symptoms persist

Eye: Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical

attention

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

Waste disposal method:

Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information:

Store in cool, dry area and in tightly sealed container separate from acids and alkalis.

Wash thoroughly after handling.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

NIOSH approved respirator, impervious gloves, safety glasses, clothes to prevent contact.

Ventilation:

Local or other ventilation should be used to reduce dust concentrations to less than permissible exposure limits

Work/Hygienic/Maintenance Practices:

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.