

Material Safety Data Sheet

Required under USDL Safety and Health Regulations for Shipyard Employment (29 CFR 1915)

U.S. Department of Labor

Occupational Safety and Health Administration



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Zinc Metal, Dust

CAS No. 7440-66-6

Section I

Manufacturer's Name

Sargent-Welch Scientific Company

Emergency Telephone Number

312-677-0600

Address (Number, Street, City, State, and ZIP Code)

7300 N. Linder Ave.

Chemical Name and Synonyms

Zinc Metal, Dust

Trade Name and Synonyms

Skokie, Illinois 60077

Chemical Family

Formula

Zn

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents

% TLV (Units)

Alloys and Metallic Coatings

% TLV (Units)

| Paints, Preservatives, and Solvents | % TLV (Units) | Alloys and Metallic Coatings | % TLV (Units) |
|-------------------------------------|----------------|--|----------------|
| Pigments | Not Applicable | Base Metal | Not Applicable |
| Catalyst | | Alloys | |
| Vehicle | | Metallic Coatings | |
| Solvents | | Filler Metal Plus Coating or Core Flux | |
| Additives | | Others | |
| Others | | | |

Hazardous Mixtures of Other Liquids, Solids or Gases

% TLV (Units)

Not Applicable

Section III - Physical Data

| | | | |
|-------------------------|--------|---------------------------------------|------|
| Boiling Point (°F) | 1665°F | Specific Gravity (H ₂ O=1) | 7.14 |
| Vapor Pressure (mm Hg.) | NA | Percent Volatile by Volume (%) | NA |
| Vapor Density (AIR=1) | NA | Evaporation Rate _____ =1) | NA |

Solubility in Water

Insoluble

Appearance and Odor

Metallic, odorless

Section IV - Fire and Explosion Hazard Data

| | | | | | |
|---------------------------|----|------------------|----|-----|-----|
| Flash Point (Method Used) | NA | Flammable Limits | NA | Lel | Uel |
|---------------------------|----|------------------|----|-----|-----|

Extinguishing Media

CO₂ or dry chemical

Special Fire Fighting Procedures

Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

At extreme heat, zinc oxide may be evolved.

Section V - Health Hazard Data

Threshold Limit Value

For zinc oxide fumes: 5.0 mg/m³

Effects of Overexposure

Excessive inhalation of the freshly formed fume may produce characteristic symptoms known as metal fume fever. Only the freshly formed fume is potent. Symptoms (fever and chills) are normally gone within 24-48 hours with bed rest and aspirin. Dust may cause irritation.

Emergency First Aid Procedures

EYES: Flush with flowing water for at least 15 minutes. Seek medical attention. **SKIN:** Wash contact area thoroughly with soap and water. Seek medical attention if irritation develops or persists. **INHALATION:** If inhalation of fume or dust, move to fresh air. Seek medical attention. **INGESTION:** If conscious, have patient drink water and induce vomiting. Seek immediate medical attention.

Section VI - Reactivity Data

| | | | |
|-----------|----------|---|---------------------|
| Stability | Unstable | | Conditions to Avoid |
| | Stable | X | |

Incompatibility (Materials to Avoid)

May react with acids.

Hazardous Decomposition Products

At extreme temperatures, zinc oxide may be evolved.

| | | | |
|--------------------------|----------------|---|---------------------|
| Hazardous Polymerization | May Occur | | Conditions to Avoid |
| | Will Not Occur | X | |

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

Avoid creating dust. This material has recycle value. Gather up spilled material and place in a container for disposal or reclamation.

Waste Disposal Method

If unable to recycle, disposal in accordance with all applicable federal, state and local environmental regulations.

Section VIII - Special Protection Information

Respiratory Protection (Specify Type)

NIOSH approved respirator if creating fumes or dust.

| | | |
|----------------------------|--------------------------|---------------------|
| Ventilation | Local Exhaust | Special |
| | Mechanical (General) | Other |
| Protective Gloves | Rubber Gloves | Eye Protection |
| Other Protective Equipment | Laboratory apron or coat | Emergency eye wash. |
| | | Goggles |

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing

Store in a tightly closed container in a cool dry area. Keep away from acids.

Other Precautions

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