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To Sheri | From
Co./Dept. AZTEC / WASKON | Co.

# MATERIAL SAFETY DATA SHEET

## SECTION I

Product Name:
**HI GRADE & SPECIAL HI GRADE**

U.S. ZINC
*Going strong with US.*
A subsidiary of IMCO Recycling Inc.
*6020 Esperson St.*
*Houston, TX. 77011*

Synonyms:
*ZINC SLABS OR INGOTS*

Emergency: Chemtrec 1800 424 9300

For Information: (713) 926-1705

Date Prepared: 05/09/91 03/14/01

## SECTION II - HAZARDOUS INGREDIENTS

| Hazardous Component | CAS No. | % (Range) | ACGIH (TLV) mg/m3 | PEL mg / m3 |
|---|---|---|---|---|
| Zinc Metallic | 7440-66-6 | 99.90 min | 5 (fume) | |
| Lead | 7439-92-1 | 0.03 max | 0.15 | 50.0 ug/m3 |

## SECTION III - PHYSICAL CHEMICAL CHARACTERISTICS

| | |
|---|---|
| Boiling Point: (Zn) 1665° F | Specific Gravity: (H2O = 1) 7.1 |
| Vapor Pressure: (mm Hg.) @1095° F = 10mm Hg | Melting Point: (ZN) 788° F |
| Vapor Density:(air = 1) NA | Evaporation Rate: (Butyl Acetate = 1) NA |
| Solubility In Water: Low | Appearance and Odor: Bluish-Gray Lustrous metallic |
| Flash Point: NA | Particle Size: NA |

## SECTION IV - REACTIVITY DATA

**Stability :** Stable in itself. However resulting dust particles & fume, should avoid moisture, alkalis or acids. Storage in unventilated areas could retain gases that may be formed.

**Incompatibility (Materials To Avoid) :** Moisture, acids and alkalis

**Hazardous Decomposition Products :** If material forms dust and moisture is present, hydrogen gas may evolve

## SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Extinguishing Media :** Dry Powder extinguisher preferred; dry chemical. **AVOID WATER IF DUST PRESENT**

**Special Fire Fighting Procedures:** Slabs (Ingots) are stable. Do not add wet slabs to molten bath. Dry Zinc Dust will not ignite spontaneously; but once ignited, may burn readily in air. DO NOT SPREAD MATERIAL. Smother and allow fire to go out. Wear self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards :** Slabs (Ingots) are Stable. Bulk dust in contact with water or damp air can evolve hydrogen. The heat produced during this reaction could ignite the hydrogen. An explosive condition may exist if this happens in a confined space. Dry dust forms explosive mixtures with air, if ignited.

## SECTION VI - HEALTH HAZARD DATA

**Route (s) Of Entry :** Inhalation. Mechanical irritation to skin and eyes.

**Health Hazards (Acute and Chronic) :** Exposure to dust and fumes can cause metal fume fever.
Metal fume fever is a delayed, generally benign, transient, flu-like condition.

| **Carcinogenicity :** | NTP | IARC |
|---|---|---|
| Cadmium | YES | YES |

**Signs and Symptoms of Exposure:**
Metallic taste, respiratory irritation; and, with metal fume fever, flu-like symptoms.

**Emergency and first aid procedures :**
Remove from exposure & call for medical assistance .

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps to be taken in case material is released or spilled:**
If spilled, dust should be removed by vacuuming or sweeping to prevent heavy concentrations of airborne dust. Return all clean up material to properly labeled containers. Clean up personnel should wear respirators. Prohibit smoking and avoid all ignition sources.

**Waste disposal method :** Dispose of dust in a dry closed container and away from ignition sources.
Material Has Recyclable Value. **Follow Federal, State, And Local Regulations for disposal.**

**Precautions to be taken in handling and storing :**
Good housekeeping. **Avoid moisture.** Store in well-ventilated and dry area. Keep area free of dust.

## SECTION VIII - CONTROL MEASURES

| | | | |
|---|---|---|---|
| **Respiratory protection :** | Use NIOSH approved dust filter respirator. | | |
| **Ventilation :** | Local exhaust recommended. | | |
| **Protective gloves :** | Yes | **Eye protection :** | Yes |
| **Other protective clothing or equipment :** | | Wear required safety PPE and dust mask. | |
| **Work / Hygienic Practices :** | | Wash well to remove material after handling. | |

## HMIS HAZARD RATING

**HEALTH 1 FLAMMABLE 0 REACTIVITY 1**
Based on National Paint & Coatings Association HMIS rating system

## SECTION IX - REGULATORY INFORMATION

**TOXIC SUBSTANCE CONTROL ACT (TSCA) :** Components of this product are listed on the TSCA Inventory.

**SECTION 313 SUPPLIER NOTIFICATION :**
This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right -to -Know Act of 1986 (40 CFR 372) :

| CAS # | Chemical Name | % by wt. |
|---|---|---|
| 7440-66-6 | Zinc Metallic | 99.9 |

**This information should be included in all MSDSs that are copied and distributed for this material .**