MATERIAL SAFETY DATA SHEET

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Emergency Phone Numbers:
CHEMTREC: 800/424-9300
POISON CENTER: 800/562-8236

Date of Last Revision: 08-03-93

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SECTION 1
PRODUCT IDENTIFICATION

CHEMICAL NAME(S) AND SYNONYM(S): Zinc
FORMULA: Zn

CHEMICAL FAMILY: Element

CHEM ABSTRACT NO.: 7440-66-6

TSCA: Product is listed.

CAL. MOLECULAR WEIGHT: 65.37

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SECTION 2
INGREDIENTS/SUMMARY OF HAZARDS

<table>
<thead>
<tr>
<th>INGREDIENT(S)</th>
<th>CAS #</th>
<th>%</th>
<th>TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>99.99</td>
<td>5.0mg/m3</td>
<td>5.0mg/m3</td>
</tr>
</tbody>
</table>

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SECTION 3
PHYSICAL DATA

BOILING POINT (°F): 1661
(Degree C): 7.133

VAPOR PRESSURE: NA

% VOLATILE BY VOLUME: NA

REACTI ON WITH WATER: None

EVAPORATION RATE: NA

SOLUBILITY WITH WATER: Insoluble

MELTING POINT (°C): 419.58

APPEARANCE/ODOR: Silvery white metallic; no odor.

OTHER:

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SECTION 4
FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT/METHOD: NA
AUTOIGNITION TEMP (°C): NA
FLAMMABILITY: Non-flammable; Dust form may be hazardous.
EXTINGUISHING MEDIA: ( ) Water    ( ) Foam     ( ) Class D Extinguisher
                   (x) Dry Chemical      (x) CO(2)
                   ( ) Other (specify):
SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved self-
                                    contained breathing apparatus and full protective clothing. DO NOT USE WATER!

UNUSUAL FIRE AND EXPLOSION HAZARDS: Molten metal will explode if water is used. Small chips, turnings, dust will ignite readily. Dust cloud may be explosive.
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SECTION 5
HEALTH HAZARD DATA

TOXICITY DATA: Not established for Zinc.

ROUTE(S) OF ENTRY: ( ) Inhalation   ( ) Skin    ( ) Ingestion

EFFECTS OF OVEREXPOSURE (acute and chronic)

INHALATION: Causes metallic taste in mouth. May cause metal fume fever.

DERMAL/EYE CONTACT: May cause irritation and dermatitis.

OTHER (specify): None

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Lung disease.

CARCINOGENICITY: none       NTP: no      IARC MONOGRAPHS: no     OSHA REGULATED: no

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: Induce vomiting. Seek Medical attention.

INHALATION: Remove victim to fresh air. Administer oxygen. Seek
medical attention.

SKIN: Brush material off skin. Wash affected area with soap and water.

EYES: Flush eyes with water for 15 mins. Seek medical attention.

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SECTION 6
REACTIVITY DATA

STABILITY: (x) Stable ( ) Unstable
CONDITIONS CONTRIBUTING TO UNSTABILITY: None

INCOMPATIBILITY (materials to avoid):
( ) Water ( ) Combustible materials ( ) Strong bases
( ) Reducing Agents ( ) Strong oxidizing materials (x) Strong acids
( ) Other (specify): Halogens

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: ( ) May occur (x) Will not occur

CONDITIONS TO AVOID: Storage near acids or halogens.

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SECTION 7
SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPIPPLED: Wearing full protective clothing, isolate the area and insure proper ventilation. Vacuum up spill and place in a container for proper disposal.

WASTE DISPOSAL METHOD: In accordance with regulations.

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SECTION 8
SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION: (Specify type) NIOSH/MSHA approved respirator

VENTILATION: LOCAL EXHAUST: For dust and fumes
MECHANICAL (General): NA
SPECI AL: None

PROTECTIVE GLOVES: Recommended
EYE PROTECTION: (x) Safety Glasses with Side Shields
                  ( ) Chemical Workers Dust-Proof Goggles (under dusting conditions)
                  ( ) Gas-Tight Goggles or Equivalent
                  ( ) Other (specify):
OTHER PROTECTIVE EQUIPMENT: Maintain sink, safety shower and eyewash fountain in the work area. Wear full protective clothing at all times.

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SECTION 9
SPECIAL PRECAUTIONS AND TRANSPORTATION REGULATIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers in a cool, dry place. Wash hands and face thoroughly.
TRANSPORTATION REQUIREMENTS: Not regulated by the D.O.T.
     DOT CLASS:
     UN NUMBER:
     IMCO CLASS:
     OTHER:
     ND = No Data Found NA = Not Applicable

MATERIAL SAFETY DATA SHEET

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.