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**MSDS FOR ZINC METAL: PRIME WESTERN****ZC-M001**

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**SECTION I - GENERAL INFORMATION****NAME:** ZINC METAL**MANUFACTURER:**  
HORSEHEAD CORPORATION  
300 Frankfort Road  
Monaca, PA 15061  
724-774-1020**TRANSPORTATION EMERGENCY:**  
**CHEMTREC:** 800-424-9300**CHEMICAL FAMILY:** Nonferrous Heavy Metal**CAS NO.:** 7440-66-6**FORMULA:** Zn**DOT HAZARD CLASS:** Not listed    **UN NO.:** NAIF\*    **NA NO.:** NAIF\*

**SARA SECTION 313:** This product is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR 372. The materials underlined below are present in quantities above the applicable deminimis concentrations and are listed as Toxic Chemicals in 40 CFR 372.65.

**ISSUE DATE:** 2/25/88**REVISION DATE:** 12/18/08

\* NAIF - No applicable information found.

**SECTION II - INGREDIENTS**

| <b><u>MATERIAL</u></b> | <b><u>CAS NO.</u></b> | <b><u>%</u></b> |
|------------------------|-----------------------|-----------------|
| <b>ZINC</b>            | 7440-66-6             | 98-99.9         |
| <b><u>LEAD</u></b>     | 7439-92-1             | 1.4 max         |
| <b>CADMIUM</b>         | 7440-43-9             | 0.09 max        |
| <b>ALUMINUM</b>        | 7429-90-5             | 0.01 max        |



**ROUTES OF ENTRY**

**PRIMARY:** Inhalation, if material has been heated above the boiling point, driving off zinc fume.

**SECONDARY:** Ingestion of dusts.

**EFFECTS OF SHORT TERM OVEREXPOSURE:**

**ZINC:** Inhalation of high levels of zinc vapor (zinc oxide fumes) may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Overexposure may produce symptoms known as metal fume fever or "zinc shakes"; an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting.

**LEAD:** Exposure to high concentrations of lead may cause headache, nausea, vomiting, abdominal spasms, fatigue, sleep disturbances, weight loss, anemia, and pain in legs, arms and joints.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Inhalation of dust may be an irritant to pre-existing respiratory conditions.

**EMERGENCY AND FIRST AID PROCEDURES:** Symptoms resulting from inhalation overexposure usually disappear within 24 hours. Symptomatic treatment, such as bed rest and possibly aspirin is recommended to provide relief from fever and chills. In all cases, consult physician for medical attention.

**EFFECTS OF LONG TERM OVEREXPOSURE:**

**ZINC:** Chronic exposure to zinc may cause respiratory tract irritation with nasopharyngitis and laryngitis.

**LEAD:** Prolonged exposure to lead may produce many of the symptoms of short-term exposure and may also cause central nervous system damage, gastrointestinal disturbances, anemia, and weight drop. Symptoms of central nervous system damage include fatigue, headaches, tremors, hypertension, hallucinations, convulsions, and delirium. Kidney dysfunction and possible injury has also been associated with chronic lead poisoning.

Chronic overexposure to lead has been implicated as a causative agent for the impairment of male and female reproductive organs, but there is not present substantiation of this.

Pregnant women should be protected from excessive exposure. Lead can cross the placental barrier and it is reported that infants with neurological disorders have been born to women who have experienced excessive exposure.

**CARCINOGENIC ASSESSMENT:**

**NTP?** No    **IARC MONOGRAPH?** No    **OSHA?** No

**NOTE:** Lead is a listed Group 2B possible human carcinogen.

**SECTION VI - REACTIVITY DATA**

**STABILITY:** ( ) Unstable  
(X) Stable

**CONDITIONS TO AVOID:** None

**INCOMPATIBILITY (MATERIALS TO AVOID):** Avoid contact with acids and alkalis.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Zinc boils off as vapor at elevated temperatures.

**HAZARDOUS POLYMERIZATION:** ( ) May occur  
(X) Will not occur

**SECTION VII - SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Material should be contained for recycling.

**WASTE DISPOSAL METHOD:** Material may be recycled or disposed of in accordance with Federal, State, and Local Environmental Regulations. This material may be regulated under CERCLA, TSCA, SARA, and/or RCRA Regulations.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION (SPECIFY TYPE):** Use NIOSH/MSHA approved type respirator for protection against dust and metal fume.

**VENTILATION:** Local exhaust or other ventilation that will reduce dust concentrations to less than permissible exposure limits.

**PROTECTIVE GLOVES:** Recommended to prevent skin irritation in hypersensitive individuals.

**EYE PROTECTION:** Use safety eyewear for protection against airborne particulate matter.

**OTHER PROTECTIVE EQUIPMENT:** To prevent burns from contact with molten metal, appropriate protective garments should be worn. Such garments may include aprons, face shields, leggings, etc., depending on conditions of use.

**SECTION IX - SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Store in a dry location, separate from acids and alkalis. Keep metal dry so it does not contain any moisture when ready for use.

**OTHER PRECAUTIONS:** Damp slabs placed in molten metal may result in a steam explosion. Always practice good personal hygiene when working in areas where this material exists.

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