

# MATERIAL SAFETY DATA SHEET

<b>DATE ISSUED :</b>	4/27/2011
<b>MSDS REF. No :</b>	700A514D

## SAE-AMS-P-38336 Inorganic Zinc Rich Primer (Dust)

### 1. PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME:** SAE-AMS-P-38336 Inorganic Zinc Rich Primer (Dust)  
**PRODUCT CODE:** 700A514D

#### MANUFACTURER INFORMATION

MACH-DYNAMICS  
494 Main Street  
Susquehanna, PA 18847  
**Phone:** (775) 278-9308  
**Fax:** (775) 599-4585  
**Contact :** Mark Gingerella

#### 24 HR. EMERGENCY TELEPHONE NUMBER

**CHEMTREC (US Transportation):** 1(800)424-9300  
**CHEMTREC (International Transportation):** +1(202)483-7616

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE :** Solid

**IMMEDIATE CONCERNS :** May contain LEAD which may cause blood disorders and lead poisoning. This product has been tested and shown to fall well below the level of gas emission when exposed to water (49 CFR Part 173 E, 4) and is, therefore, not a regulated product and is not defined as dangerous when wet. Product is packaged in steel or plastic water tight containers. Contains possible lead compounds which may cause blood disorders, lead poisoning, or reproductive harm.

#### POTENTIAL HEALTH EFFECTS

**EYES :** May cause eye irritation.

**SKIN :** May cause skin irritation.

**INGESTION :** May cause gastrointestinal distress.

**INHALATION :** Overexposure will be irritating to the mucous membrane.

**CHRONIC :** Pure zinc dust is relatively non-toxic to humans by inhalation. Minor inhalation may irritate respiratory tract causing coughing whereas larger doses will give zinc shakes or metal fume fever; a benign flu-like condition.

**CARCINOGENICITY :** This material is not currently known to have carcinogenic properties.

**MUTAGENICITY :** This material is not know to have mutagenic effects on genetic material.

**IRRITANCY:** This material may cause irritation to the eyes, skin, and respiratory tract. Use correct PPE when handling this material.

**REPRODUCTIVE TOXICITY**

**REPRODUCTIVE EFFECTS** : This material is not known to cause any reproductive system damage.

**TERATOGENIC EFFECTS** : This material is not known to contain any teratogenic substances.

**3. COMPOSITION/CHEMICAL INFORMATION**

Chemical Name	CAS Number	Weight %
Zinc Metallic	7440-66-6	75% to 100%

\* Toxic chemical subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

**4. FIRST AID MEASURES**

**EYES** : Flush eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN** : Wash skin thoroughly with soap and water.

**INGESTION** : Give 2-3 cups of water or milk if victim is conscious. Do NOT induce vomiting. Get medical attention immediately.

**INHALATION** : If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptom persists or exposure was severe.

**NOTES TO PHYSICIAN**: None known.

**5. FIRE FIGHTING MEASURES**

**FLASH POINT AND METHOD** : 0 degrees Fahrenheit Tagliabue Closed Cup (TCC)

**FLAMMABLE LIMITS** : N/A

**AUTOIGNITION TEMPERATURE** : No data available.

**GENERAL HAZARD** : Carbon monoxide and unidentified organic compounds may be formed during combustion.

**EXTINGUISHING MEDIA** : Use water fog, "alcohol" foam, dry chemical, or CO<sub>2</sub>.

**FIRE FIGHTING PROCEDURES** : Dry zinc dust will not ignite spontaneously; but once ignited, may burn readily in air. DO NOT SPREAD MATERIAL. Smother dry and allow fire to go out. Wear self contained breathing apparatus.

**EXPLOSION HAZARD** : Bulk Dust in Contact with water or damp air evolves hydrogen. The heat produced during this reaction could ignite the hydrogen, an explosive condition could exist if this happens in a confined space. Dry dust forms explosive mixtures in air, if ignited.

## 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES :** Personal Precaution: Wear approved respirator. 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. Prohibit smoking and avoid all ignition sources.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL :** Keep material out of storm sewers and ditches which lead to waterways.

**LAND SPILL :** Contact applicable authorities and determine applicable regulations based on MSDS information.

**AIR RELEASE :** Contact applicable authorities and determine applicable regulations based on MSDS information.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES :** Personal Precaution: Wear approved respirator. 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. Prohibit smoking and avoid all ignition sources.

**COMMENTS :** KEEP OUT OF REACH OF CHILDREN! Keep away from heat, sparks, open flames and oxidizing agents. Keep containers. Store in a cool, dry place with adequate ventilation.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE GUIDELINES :

#### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

CHEMICAL NAME	EXPOSURE LIMITS			
	OSHA PEL		ACGIH TLV	
	ppm	mg/m <sub>3</sub>	ppm	mg/m <sub>3</sub>

### OSHA TABLE COMMENTS:

NL = Not Listed

Ca = "WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

**ENGINEERING CONTROLS:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

**SKIN:** Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**RESPIRATORY:** If exposure may or does exceed occupational exposure limits (Section 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**HYGIENIC WORK PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**COMMENTS:** May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE :** Solid

**ODOR :** No odor.

**pH :** Not Applicable

**BOILING POINT :** N/A

**FREEZING POINT :** No data available

**VOLATILE ORGANIC COMPOUNDS:** 0.0 G/L (0.0 LBS/G)  
(VOC Theoretical – As Packaged)

**SOLUBILITY IN WATER :** Insoluble in all solvents.

**EVAPORATION RATE :** No data available

**DENSITY :** 59.30 (Lbs/G)

## 10. STABILITY AND REACTIVITY

**STABLE :** Yes

**HAZARDOUS POLYMERIZATION :** Will not occur

**CONDITIONS TO AVOID :** Avoid heat, sparks, flame and contact with strong oxidizing agents. Prevent vapor accumulation.

**POLYMERIZATION :** Avoid heat, flame, and other sources of ignition.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions, hot zinc dust that is exposed to water could generate Hydrogen gas. When welding, heating, or torch cutting surfaces coated with a zinc coating, zinc oxide fume can be produced and could cause "metal fume fever". Use exhaust systems and proper breathing protection to avoid breathing the fumes resulting from these conditions.

**INCOMPATIBLE MATERIALS :** Strong oxidizers.

## 11. TOXICOLOGICAL INFORMATION

**GENERAL COMMENTS:** None identified.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** Keep out of waterways.

**13. DISPOSAL INFORMATION**

**DISPOSAL METHOD:** The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**EMPTY CONTAINER:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

**RCRA/EPA WASTE INFORMATION:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME :** N/A (Not Regulated)

(UN#, Proper Shipping Name, Class, Packing Group)

**15. REGULATORY INFORMATION****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

**FIRE :** No      **PRESSURE GENERATING :** No

**REACTIVITY :** No      **ACUTE :** Yes      **CHRONIC :** Yes

**313 REPORTABLE INGREDIENTS:** To the best of our knowledge, this product is not listed as a toxic chemical.

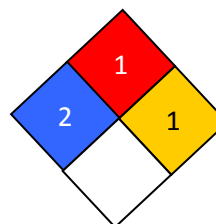
**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** To the best of our knowledge, this material is not listed as an extremely hazardous substance.

**16. OTHER INFORMATION**

**APPROVED BY :** Mark Gingerella

**TITLE :** President / QC Manager

**NFPA CODES**

HMIS RATING	
Health :	2
Flammability :	1

700A514D

**SAE-AMS-P-38336 Inorganic Zinc Rich Primer (Dust)**

Reactivity :	1
Personal Protection :	E

**MANUFACTURER DISCLAIMER :** The information contained herein is based on the data available to us and is believed to be accurate. However, MACH-DYNAMICS makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. MACH-DYNAMICS assumes no responsibility for injuries from the use of the product described herein.