

MATERIAL SAFETY DATA SHEET

SECTION I				
Product Name:		Synonyms:	Pipe Mill Dust / Hard Blue Powder	
Manufacturer's Name:		Emergency:	Chemtrec: 1 800 424 9300	
			Overseas: 1 703 527 3887	
		For Information:	(713) 926 1705	
6020 Esperson St. Houston TX. 77001		Date Prepared:	8 Aug 02	
SECTION II HAZARDOUS INGREDIENTS				
Hazardous Component	CAS No.	% (Range)	ACGIH (TLV) mg/m3	PEL mg/m3
Zinc Metallic	7440-66-6	90.0 - 98.0	5 (FUME)	5
Zinc Oxide	1314-13-2	2.0 - 10.0	5	
SECTION III PHYSICAL CHEMICAL CHARACTERISTICS				
Boiling Point:	(Zn) 1665°F	Specific Gravity (H ₂ O = 1):	7.1	
Vapor Pressure: (mm Hg.)	@1095° F = 10mm Hg	Melting Point:	(ZN) 788° F	
Vapor Density: (air = 1)	N/A	Evaporation Rate: (Butyl Acetate = 1)	N/A	
Solubility In Water:	Low	Appearance and Odor:	Blue/Grey powder/chunks	
Flash Point:	N/A	Particle Size:		
SECTION IV REACTIVITY DATA				
Stability:	Stable in itself, however avoid moisture, alkalis or acids and storage in unventilated areas that could retain gases that may be formed.			
Incompatibility (Materials to avoid):	Moisture, acids and alkalis			
Hazardous Decomposition Products:	Hydrogen gas, though not a decomposition product per se, may evolve under conditions described above.			

SECTION V FIRE AND EXPLOSION HAZARD DATA		
Extinguishing Media:	Dry Powder extinguisher preferred; dry chemical. AVOID WATER	
Special Fire Fighting Procedures:	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:	Bulk dust in contact with water or damp air evolves 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):	Dust and fumes can cause nausea, gastric pain and irritation to the upper respiratory tract.	
Carcinogenicity:	NTP	IARC
Lead	No	Yes
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 and call for medical assistance.	

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps to be taken in case material is released or spilled:	<ul style="list-style-type: none"> • 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 in a dry, closed container and away from ignition sources. Material has recyclable value. For disposal, follow Federal, State and local regulations.

<p>Precautions to be taken in handling and storing:</p>	<ul style="list-style-type: none"> • Good housekeeping • AVOID MOISTURE • It is essential to store in well-ventilated dry areas to prevent formation and build-up of hydrogen-air mixtures. Failure to vent may cause explosive concentrations. Avoid open flames or sparks of any kind near wet material. 												
<p>SECTION VIII CONTROL MEASURES</p>													
<p>Respiratory protection:</p>	<p>Use NIOSH approved dust filter respirator</p>												
<p>Ventilation:</p>	<p>Local exhaust recommended</p>												
<p>Protective gloves:</p>	<p>Yes</p>												
<p>Eye Protection:</p>	<p>Yes</p>												
<p>Other protective clothing or equipment:</p>	<p>Wear required safety equipment and dust mask</p>												
<p>Work/hygienic practices:</p>	<p>Wash well to remove material after handling</p>												
<p>HIMIS HAZARD RATING</p>													
<p>Health: 2</p>	<p>Based on National Paint and Coatings Association HMIS rating system.</p>												
<p>Flammable: 0</p>													
<p>Reactivity: 2</p>													
<p>SECTION IX REGULATORY INFORMATION</p>													
<p>Toxic Substance Control Act (TSCA):</p>	<p>Components of this product are listed on the TSCA Inventory.</p>												
<p>Section 313 Supplier Notification:</p>	<p>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):</p>												
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">CAS #</th> <th style="text-align: left;">Chemical Name</th> <th style="text-align: left;">% by wt.</th> </tr> </thead> <tbody> <tr> <td>7440-66-6</td> <td>Zinc Fume or Dust</td> <td>96</td> </tr> <tr> <td>NA</td> <td>Zinc Compounds</td> <td>4</td> </tr> <tr> <td>NA</td> <td>Lead compounds</td> <td>0.1</td> </tr> </tbody> </table>	CAS #	Chemical Name	% by wt.	7440-66-6	Zinc Fume or Dust	96	NA	Zinc Compounds	4	NA	Lead compounds	0.1
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	7440-66-6	Zinc Fume or Dust	96										
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<p>If packaged in units of 1000 lbs or more, this product would be subject to the reportable quantity declaration under 49 CFR, part 172.101, Appendix A and it should be classified as: “Environmentally Hazardous Substance Solid, N.O.S., Class 9, UN 3077, Packing Group III, RQ (Zinc)”</p>													