



H.M.I.S. RATING	
Health	1
Flammability	0
Reactivity	0
Protective Equip.	E

Material Safety Data Sheet – OSHA 174

Material Safety Data Sheet

May be used to comply with OSHA's Hazard communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

US Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

ZETAC

Product No. M1180

SECTION I - Manufacturer / Product Information

Manufacturer's Name: ThorWorks Industries, Inc.	Emergency Telephone No.: Chemtrec: 1-800-424-9300
Address: 2520 South Campbell Street Sandusky, Ohio 44870	Telephone Number for Information: 1-800-326-1994
	Date Prepared: August 11, 2004

SECTION II - Chemical Identity Information

Ingredient	CAS #	OSHA PEL	ACGIH TLV	Other Limits	Percent
Aminoethyl Puperazine	140-31-8				
Blend of fatty amines and amidoamines		None	None		

SECTION III - Physical / Chemical Characteristics

Boiling Point: 212? Fahrenheit	Specific Gravity (H₂O = 1): 0.971 @ 77 deg. F.
Vapor Pressure (mm Hg): Nearly equal to water.	Melting Point: N/A
Vapor Density (AIR = 1): N/D	Evaporation Rate (Butyl Acetate = 1): <1
Solubility in Water: soluble	
Appearance and Odor: Grey liquid, Slight ammonia odor.	

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used): > 201 deg. F.	Flammable Limits: N/A	LEL: N/A	UEL: N/A
Extinguishing Media: Water fog or spray, Dry chemical, foam.			
Special Fire Fighting Procedures: Full protective equipment, including self-contained breathing apparatus to be worn.			
Unusual Fire and Explosion Hazards: Unknown			

SECTION V - Reactivity Data

Stability: Unstable: Stable: X	Conditions to Avoid: Temperatures above 212 deg. F. Dehydrates non-violently.
Incompatibility (Materials to Avoid): Strong Acids, Strong oxidizers.	
Hazardous Decomposition or Byproducts: Hydrocarbons, alcohols and ketones.	
Hazardous Polymerization: May Occur: Will Not Occur: X	Conditions to Avoid: N/A

SECTION VI - Health Hazard Data

Route(s) of Entry: **Inhalation?** Yes **Skin Contact?** Yes **Ingestion?** Yes **Eye Contact?** Yes

Health Hazards (Acute and Chronic):

(Acute): Dermal (Skin): ND- Considered severely irritating and corrosive to skin. Eye: Draize Score ND- Considered severely irritating and corrosive to eyes.

Carcinogenicity: **NTP?** No **IARC Monographs?** No **OSHA Regulated?** No

Emergency and First Aid Procedures:

Inhalation: Remove to fresh air, if not breathing give artificial respiration, give oxygen if needed, get medical attention if indicated.

Ingestion: Do not induce vomiting, give plenty of water, rinse mouth and GET MEDICAL ATTENTION.

Skin: Remove contaminated clothing IMMEDIATELY. Wash skin THOROUGHLY with soap and water. Continue application of cold water to burn area. Get medical attention if indicated.

Eye: Immediately flush with water for at least 15 minutes. Contact lenses should be removed if the initial flush doesn't wash them out. GET MEDICAL ATTENTION. IMMEDIATE FIRST AID IS NEEDED TO PREVENT EYE DAMAGE.

Medical Conditions Generally Aggravated by Exposure: None known.

SECTION VII - Precautions for Safe Handling and Use

Waste Disposal Method: Dispose of in accordance with Local, State, and Federal regulations.

Precautions to Be Taken in Handling and Storage: Keep container closed and upright to prevent leakage. Avoid freezing or temperatures above 50° Celsius.

Other Precautions: Do not take internally. Keep away from children. Avoid breathing vapors. For external use only.

SECTION VIII - Control Measures

Respiratory Protection (Specify Type): None required

Ventilation: **Local Exhaust:** Yes **Special:** N/A
 Mechanical (General): N/A **Other:** N/A

Protective Gloves: Yes **Eye Protection:** Yes

Other Protective Clothing or Equipment: Safety shower and/or eye wash should be available. Use of a chemical-resistant apron or suit may be necessary in high-exposure situations

Work/Hygienic Practices: Wear long sleeves. Wash thoroughly after handling, do not get in eyes, on skin or clothing. Do not breathe vapors.

SECTION IX - Disclaimer

All information, recommendations, and suggestions concerning this product are based upon tests, literature references, and/or calculations, believed to be reliable. The manufacturer makes no guarantee, expressed or implied, as to the effect of use, or the safety and toxicity of the product. The information contained in this sheet cannot be taken as the sum total of all protective measures to be taken.