

MATERIAL SAFETY DATA SHEET

MS-1600 BASE COMPONENT

Document # 3100

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SECTION 1: PRODUCT IDENTIFICATION AND USE

MFG'S NAME: ITW AMERICAN SAFETY TECHNOLOGIES
565 Eagle Rock Ave.
Roseland, New Jersey 07068
(973) 403-2600

**TRADE NAME: MS-1600
BASE COMPONENT**

CHEMICAL FAMILY: EPOXY

Dot Shipping Classification (49CFR 172.101): Paint, Combustible Liquid, UN1263,III
Transportation Emergency Number (CHEMTREC): 1-800-424-9300
Mfg's Dunn's No: 002-171-213

HMIS RATING:
Health =2
Flammability =2
Reactivity =0

COMMER'L & GOV'T ENTITY (CAGE) CODE: 88444

NATIONAL STOCK NO: 8010-01-397-3802
8010-01-397-3806
SPEC: (Type, Grade, or Class) MIL-PRF-24667B (Navy) Type III, Intermediate Coat
MIL-PRF-24613 Type 2 Class 2

CONTRACT OR ORDER NO.

PREPARED BY: J. Hermele

DATE: 12/6/00

REVISION: 2

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS No	% WT.	OSHA	ACGIH	OTHER
Epoxy Resins	25068-38-6	30-40%	N.E.	N.E.	LD50RAT>5g/Kg(Oral)
Hydrated Alumina	21645-52-1	50-60%	10mg/m3 dust	10mg/m3 dust	
Propylene Glycol Ether	1569-02-4	<2%	N.E.	N.E.	

* Contains less than 0.1% Crystalline Silica
(N.E. = Not Established)

SECTION 313 SUPPLIER INFORMATION: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372. THIS INFORMATION MUST BE INCLUDED ON THE MSDS COPIED AND DISTRIBUTED FOR THIS MATERIAL.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight %</u>
None		

SECTION 3: PHYSICAL DATA

BOILING POINT: >240°F/116°C
VAPOR PRESSURE: 8mmHg @ 68°F/20°C
VAPOR DENSITY: 3.1 (AIR = 1)
SOLUBILITY IN WATER: Slight
APPEARANCE AND ODOR: Pigmented Viscous Liquid, Mild Odor.

SPECIFIC GRAVITY: 1.6
MELTING POINT: N.E.
EVAPORATION RATE: 0.7 (Butyl Acetate = 1)

SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: >101°F/38°C SETA
FLAMMABLE LIMITS: LEL UEL
1.62 11.8

EXTINGUISHING MEDIA: Dry Chemical and Chemical Foam.

SPECIAL FIRE FIGHTING PROCEDURES: Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment where potential for exposure to vapors or products of combustion exists.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Decomposition and combustion products may be toxic.

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SECTION 5: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation/Skin/Ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC)

Eyes: Irritant. Aggregate may cause injury.
Skin: May cause moderate irritation and sensitization.
Inhalation: Vapors may cause headaches, nausea, dizziness and respiratory irritation.
Ingestion: No specific information available. Contains materials that may be slightly toxic.

CONDITIONS AGGRAVATED BY EXPOSURE: Allergy, eczema and other skin conditions.

CARCINOGENIC DATA: Not on NTP, IARC or OSHA Lists.

OVEREXPOSURE EFFECTS: Irritation, sensitization and dermatitis.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush with large quantities of water for at least 15 minutes. Get medical attention.
Skin: Remove contaminated clothing. Wash contact area with mild soap and water for 15 minutes.
Inhalation: Remove to fresh air. If breathing has stopped administer artificial respiration and seek medical attention.
Ingestion: Do not induce vomiting (contains solvent). Get medical attention.

SECTION 6: REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Excessive Heat

INCOMPATIBILITY (Materials to Avoid): Strong Oxidizing Agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide and Aldehydes.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Dike Spill. Absorb with inert material and collect for disposal. Flush contaminated area with water; prevent washings from entering waterways.

WASTE DISPOSAL METHODS: This product, if disposed as shipped, meets EPA criteria of a hazardous waste as specified in 40 CFR 261 on the basis of its ignitability. Dispose of in a licensed hazardous waste facility in accordance with applicable laws.

SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator with organic vapor cartridge if required.

VENTILATION: Explosion-proof mechanical ventilation and local exhaust are recommended. Mechanical exhaust is not recommended as the sole means of controlling employee exposure.

PROTECTIVE GLOVES: Impervious gloves.

EYE PROTECTION: Chemical splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT: In operations where contact may occur, coveralls, apron and impervious foot covering are recommended.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid all personal contact. Do not exceed 110°F/43°C in storage area. Ground and bond metal containers for liquid transfer to avoid static sparks.

SECTION 9: SPECIAL / OTHER INSTRUCTIONS

- * A safety shower and eye wash facility should be available to employees.
- * Contaminated clothing should be removed immediately and thoroughly laundered before reuse.

MS-1600 HARDENER COMPONENT

SECTION 5: HEALTH HAZARD DATA

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PRIMARY ROUTES OF ENTRY: Inhalation/Skin/Ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC)

Eyes: Causes severe irritation or burns. May cause permanent visual impairment.
Skin: Causes severe irritation or burns. May be absorbed through skin in harmful amounts.
Inhalation: May cause nose and throat irritation.
Ingestion: May cause burns of mouth and throat. Contains material that may be slightly toxic.

CONDITIONS AGGRAVATED BY EXPOSURE: Allergy, eczema and other skin conditions.

CARCINOGENIC DATA: Not on NTP, IARC or OSHA Lists.

OVEREXPOSURE EFFECTS: Irritation, sensitization and dermatitis.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush with large quantities of water for at least 15 minutes. Get medical attention.
Skin: Remove contaminated clothing. Wash contact area with mild soap and water for 15 minutes.
Inhalation: Remove to fresh air. If symptoms persist consult a physician.
Ingestion: Do not induce vomiting. If conscious, give large quantities of water to dilute. Get medical attention.

SECTION 6: REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Excessive Heat

INCOMPATIBILITY (Materials to Avoid): Strong Oxidizing Agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, and Oxides of Nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike Spill. Absorb with inert material and collect for disposal. Flush contaminated area with dilute (5%) acetic acid and collect rinsate for disposal.

WASTE DISPOSAL METHODS: This product, if disposed as shipped, is not a hazardous waste as specified in 40 CFR 261. Consult State or local officials for proper disposal method.

SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator with organic vapor cartridge if required.

VENTILATION: Local exhaust recommended. Mechanical ventilation is not recommended as the sole means of controlling employee exposure.

PROTECTIVE GLOVES: Impervious rubber or plastic gloves.

EYE PROTECTION: Chemical splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT: In operations where contact may occur, coveralls, apron and impervious foot covering are recommended.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid all personal contact. Do not exceed 110F/43C in storage area. Ground and bond metal containers for liquid transfer to avoid static sparks.

SECTION 9: SPECIAL / OTHER INSTRUCTIONS

- * A safety shower and eye wash facility should be available to employees.
- * Immediately remove and thoroughly launder contaminated clothing before reuse.