

MATERIAL SAFETY DATA SHEET

MS-2000 BASE COMPONENT

Document #3080

Page 1 of 1

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-2000
BASE COMPONENT

CHEMICAL FAMILY: EPOXY

DOT SHIPPING CLASSIFICATION (49 CFR 172.101): Paint,3,UN1263,III
TRANSPORTATION EMERGENCY NUMBER (CHEMTREC): 1-800-424-9300

MFG'S DUNN'S NO: 002-171-213

NATIONAL STOCK NO: 8010-00-516-0021, 8010-00-519-1852

SPECIFICATION: MIL-PRF-24667B Type IV

PREPARED BY: J. Farrell

DATE: 07/08/06

REVISION: 5

HMIS RATING:

Health = 2

Flammability = 3

Reactivity = 1

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	% WT.	OSHA	ACGIH TLV
Epoxy Resin	25068-38-6	10-15%		Non-Hazardous
Alumino-Silicate Mineral	37244-96-5	10-25%		10mg/m ³ dust
Propylene Glycol	1569-02-4	4-10%		N.A.
Monoethyl Ether				
Aluminum Oxide	1344-28-1	50-55%		10mg/m ³ dust
Aromatic Naphtha	64742-95-6	<5%		100ppm
Methyl-N-Amyl Ketone	110-43-0	<5%		100ppm
1-Methoxy-2-Propanol	107-98-2	<1%		100ppm
Total Crystalline Silica content CAS #14808-60-7 less than 0.1% (N.A. = Not Available)				

SECTION 313 SUPPLIER INFORMATION: 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 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 **SPECIFIC GRAVITY:** 2.1
VAPOR PRESSURE: 8mmHg @ 68°F/20°C **MELTING POINT:** N.E.
VAPOR DENSITY: 3.7 (AIR = 1) **EVAPORATION RATE:** 0.7 (Butyl Acetate = 1)
SOLUBILITY IN WATER: Slight
APPEARANCE AND ODOR: Pigmented Viscous Paste, Mild Odor
(N.E = Not Established)

SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: >100°F/38°C SETA **FLAMMABLE LIMITS:** LEL UEL
1.6 11.8

EXTINGUISHING MEDIA: Chemical Foam or Dry Chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Remove all ignition sources. Wear self-contained 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.

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 tract 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.
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.

MATERIAL SAFETY DATA SHEET

MS-2000 HARDENER COMPONENT

Document # 3081

Page 1 of 2

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-2000
HARDENER COMPONENT

CHEMICAL FAMILY: Amine Compound

DOT SHIPPING CLASSIFICATION (49 CFR 172.101): Paint, Combustible Liquid, UN1263, III
TRANSPORTATION EMERGENCY NUMBER (CHEMTREC): 1-800-424-9300
MFG'S DUNN'S NO: 002-171-213
NATIONAL STOCK NO: 8010-00-516-0021, 8010-00-519-1852
SPECIFICATION: MIL-PRF-24667B TYPE IV

HMIS RATING:
Health = 3
Flammability = 2
Reactivity = 1

PREPARED BY: J. Farrell

DATE: 07/08/06

REVISION: 5

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	% WT.	OSHA PEL	ACGIH TLV
Polyamide/Epoxy Adduct	68424-41-9	60-70%	N.E.	N.E.
Amidoamine Resin	68443-08-3	16%	N.E.	N.E.
1-Methoxy-2-Propanol	107-98-2	10-25%	N.E.	100ppm

(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: N.E.	SPECIFIC GRAVITY: 0.96
VAPOR PRESSURE: N.E.	MELTING POINT: N.E.
VAPOR DENSITY: N.E. (AIR = 1)	EVAPORATION RATE: N.E. (Butyl Acetate = 1)
SOLUBILITY IN WATER: Partially Soluble	APPEARANCE AND ODOR: AmberLiquid, Solvent Odor

SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: 100°F/38°C PMCC

FLAMMABLE LIMITS: LEL UEL
N.E. N.E.

EXTINGUISHING MEDIA: Dry Chemical, Chemical Foam, Carbon Dioxide or Water.

SPECIAL FIRE FIGHTING PROCEDURES: Remove all sources of ignition. Wear complete personal protection equipment including self-contained breathing apparatus 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.

MS-2000 HARDENER COMPONENT

SECTION 5: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation/Skin/Ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC)

Eyes: Causes severe irritation or burns. May cause permanent visual impairment.
Skin: Cause severe irritation or burns. May be absorbed through skin in harmful amounts.
Inhalation: May cause upper respiratory tract 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.
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: Remove all sources of ignition. 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, meets EPA criteria of a hazardous waste as specified in 40 CFR 261 on the basis of it's 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 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.
- * Immediately remove and thoroughly launder contaminated clothing before reuse.