

MATERIAL SAFETY DATA SHEET

MS-8000 LT TYPE L BASE COMPONENT

Document #

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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-8000 LT
TYPE: BASE COMPONENT**

CHEMICAL FAMILY: EPOXY

Dot Shipping Classification (49CFR 172.101): Paint,3,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:

NATIONAL STOCK NO: **SPEC:** (Type, Grade, or Class)
MIL-PRF-24667B (Navy)

PREPARED BY: J. Farrell

DATE: 01-20-05

REVISION:

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS No	% WT.	OSHA	ACGIH
Epoxy Resin	25068-38-6	10-25%	N.E.	N.E.
Polyglycol Epoxy Resin	41638-13-5	1-5%	N.E.	N.E.
Barium Sulfate	7727-43-7	20-35%	15 mg/m3	10 mg/m3
Calcium Metasilicate	13983-17-0	1-5%	5 mg/m3	3 mg/m3
Titanium Dioxide	13463-67-7	1-2%	15 mg/m3	10 mg/m3
Anhydrous Alumino Silicate	37244-96-5	15-25%	5 mg/m3	N.E.
Aluminum Granules	7429-90-5	15-25%	N.E.	5 mg/m3

(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>
Barium Metaborate	13701-59-2	<2%

SECTION 3: PHYSICAL DATA

BOILING POINT: N.E..
VAPOR PRESSURE: N.E.
VAPOR DENSITY: N.E.
SOLUBILITY IN WATER: Slight
APPEARANCE AND ODOR: Pigmented Viscous Liquid, Mild Odor.

SPECIFIC GRAVITY: 3.1
MELTING POINT: N.E.
EVAPORATION RATE: N.E.

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SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: >102°F/>39°C Closed Cup

FLAMMABLE LIMITS: LEL UEL
N.A. N.A.

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.

SECTION 5: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation/Skin/Ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC)

Eyes: May cause irritation.

Skin: May cause moderate irritation and sensitization.

Inhalation: This material does not normally present an inhalation hazard, in applications where vapors (caused by high temperatures) or mists are created. Breathing may cause a mild burning sensation in the nose, throat, and lungs.

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 other.

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, would not be a hazardous waste by RCRA criteria (40 CFR 261). Dispose in an appropriate disposal facility in compliance with local regulations.

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SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: No respiratory protection is ordinarily required under normal conditions of use. A NIOSH/MSHA approved respirator with organic vapor cartridge may be used in areas where material is being sprayed or in mist form.

VENTILATION: No exposure controls are ordinarily required under normal conditions of use.

PROTECTIVE GLOVES: Impervious gloves.

EYE PROTECTION: Chemical splash-proof goggles, if liquid contact is likely, or safety glasses.

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. Store in a cool place, dry place with adequate ventilation. Keep away from flames and high temperatures.

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-8000 LT HARDENER COMPONENT

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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-8000 LT PT.B

TYPE: HARDENER COMPONENT

CHEMICAL FAMILY: AMINE COMPOUND

DOT SHIPPING CLASSIFICATION (49 CFR 172.101):

Paint, Combustible Liquid, UN1263,III

HMIS RATING:

Health =3

Flammability =2

Reactivity =0

TRANSPORTATION EMERGENCY NUMBER (CHEMTREC): 1-800-424-9300

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

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

NATIONAL STOCK NO: SPEC: (Type, Grade, or Class)
MIL-PRF-24667B (Navy)

PREPARED BY: J. Farrell

DATE: 1/20/2005

REVISION:

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	% WT	OSHA	ACGIH
Polyamine	*Secret	70-80%	10 ppm	10 ppm
Aromatic Petroleum Distillates	64742-94-5	10-20 %	N.E.	N.E.
Amorphous Silica	67762-90-7	5-10%	6 mg/m3	10 mg/m3

(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.

CHEMICAL NAME

CAS NUMBER

WEIGHT %

None

SECTION 3: PHYSICAL DATA

BOILING POINT: N.E.

SPECIFIC GRAVITY: 1.11

VAPOR PRESSURE: N.E.

MELTING POINT: N.E.

VAPOR DENSITY: N.E.

EVAPORATION RATE: N.E. (Butyl Acetate = 1)

SOLUBILITY IN WATER: Slight

APPEARANCE AND ODOR: Amber liquid, Ammoniacal Odor.

SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: >142°F/>61°C SETA

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

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

SPECIAL FIRE FIGHTING PROCEDURES: 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: 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: May cause irritation.
Skin: Can cause skin irritation.
Inhalation: May cause nose and throat irritation.
Ingestion: Swallowing large amounts may be harmful.

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.

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 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.