

# MATERIAL SAFETY DATA SHEET

## MS-400-100 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-400-100 L  
BASE COMPONENT

**CHEMICAL FAMILY:** EPOXY

Dot Shipping Classification (49CFR 172.101): Paint, ( NOT REGULATED )  
Transportation Emergency Number (CHEMTREC): 1-800-424-9300  
Mfg's Dunn's No: 002-171-213

**HMIS RATING:**  
Health =2  
Flammability =1  
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)  
Meets MIL-PRF-24667B (Navy) Type I Comp L

**CONTRACT OR ORDER NO.**

**PREPARED BY:** J. Hermele

**DATE:** 03-25-02

**REVISION:** 0

### SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS No	% WT.	OSHA	ACGIH	OTHER
Epoxy Resin	25068-38-6	10-25%	N.E.	N.E.	LD50RAT>5g/Kg(Oral)
Alkyl Glycidyl Ether	68609-97-2	< 2%	N.E.	N.E.	
Polyglycol Epoxy Resin	41638-13-5	< 3%	N.E.	N.E.	
Barium Sulfate	7727-43-7	20-35%	10mg/m3 dust	10mg/m3 dust	
Calcium Metasilicate	13983-17-0	< 5%	10mg/m3 dust	10mg/m3 dust	
Aluminum	7429-90-5	25-40%	5mg/m3 air	10mg/m3 air	

(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

None

CAS Number

Weight %

### SECTION 3: PHYSICAL DATA

**BOILING POINT:** >500°F

**VAPOR PRESSURE:** 0.03mmHg @ 68°F/20°C

**VAPOR DENSITY:** N/A

**SOLUBILITY IN WATER:** Slight

**APPEARANCE AND ODOR:** Pigmented Viscous Liquid, Mild Odor.

**SPECIFIC GRAVITY:** 2.0

**MELTING POINT:** N.E.

**EVAPORATION RATE:** N/A

### SECTION 4: FIRE AND EXPLOSION HAZARD

**FLASH POINT:** 480°F/249°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.

# MS-400-100 L BASE COMPONENT

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## SECTION 5: HEALTH HAZARD DATA

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**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: 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.

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## SECTION 6: REACTIVITY DATA

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**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.

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## SECTION 7: SPILL OR LEAK PROCEDURES

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**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

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**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.

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## SECTION 9: SPECIAL / OTHER INSTRUCTIONS

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\* 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-400-100 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-400-100  
HARDENER COMPONENT

**CHEMICAL FAMILY:** AMINE COMPOUND

DOT SHIPPING CLASSIFICATION (49 CFR 172.101): Paint,8,UN3066,III  
TRANSPORTATION EMERGENCY NUMBER (CHEMTREC): 1-800-424-9300  
MFG'S DUNN'S NO: 002-171-213

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

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

**NATIONAL STOCK NO:**

**SPEC:** (Type, Grade, or Class)

**CONTRACT OR ORDER NO.**

Meets requirements of MIL-PRF-24667B (Navy) Type I/II Comp G & L

**PREPARED BY:** J. Hermele

**DATE:** 01-24-02

**REVISION:** 1

### SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	% WT.	OSHA	ACGIH	OTHER
Modified amidoamine resin	* secret	75 - 100 %	* not est	* not est	
amorphous silica	67762-90-7	5 - 10 %	* non haz	* non haz	

(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:** 0.90  
**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:** Yellow Paste, Ammoniacal Odor.

### SECTION 4: FIRE AND EXPLOSION HAZARD

**FLASH POINT:** >230°F/110°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.

# MS-400-100 HARDENER COMPONENT

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## 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.

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## SECTION 6: REACTIVITY DATA

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**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.

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## SECTION 7: SPILL OR LEAK PROCEDURES

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**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. However, disposal in a licensed hazardous waste facility in accordance with applicable laws is recommended. Consult State or local officials for proper disposal method.

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## SECTION 8: SPECIAL PROTECTION INFORMATION

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**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.

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## SECTION 9: SPECIAL / OTHER INSTRUCTIONS

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