

# MATERIAL SAFETY DATA SHEET

## MS-200 BASE COMPONENT

Document # 3090

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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-200  
**BASE COMPONENT**

**CHEMICAL FAMILY:** Epoxy Acrylic

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** =1

**NATIONAL STOCK NO:** 8010-01-397-3812, 8010-01-397-3814, 8010-01-397-3815, 8010-01-397-3820  
**SPEC:** MIL-PRF-24667B, MIL-D-24483

**PREPARED BY:** J. Farrell

**DATE:** 03/14/07

**REVISION:** 7

### SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO	% WT.	OSHA	ACGIH	OTHER
Epoxy Resin	25068-38-6	10-12%	N.E	N.E.	LD50RAT>5g/Kg Oral
Hexyl Acetate	88280-35-7	1-2%	N.E.	N.E.	
Propylene Glycol	108-65-6	1-2%	N.E.	N.E.	
Monomethylether Acetate					
Methyl-N-Amyl Ketone	110-43-0	15-25%	100ppm	50ppm	
Titanium Dioxide	13463-67-7	1-20%	15mg/m3	10mg/m3	
Aromatic Naphtha	64742-95-6	10-15%	50ppmTWA	50ppmTWA	
1-Methoxy-2-Propanol	107-98-2	5-10%	100 ppm	100 ppm	

(N.E. = Not Established)

**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

<b>BOILING POINT:</b> 248°F/120°C	<b>SPECIFIC GRAVITY:</b> 1.3
<b>VAPOR PRESSURE:</b> 8mmHg @ 68°F/20°C	<b>MELTING POINT:</b> N.E.
<b>VAPOR DENSITY:</b> 3.1 (AIR = 1)	<b>EVAPORATION RATE:</b> 0.83 (Butyl Acetate = 1)
<b>SOLUBILITY IN WATER:</b> Partially Soluble	
<b>APPEARANCE AND ODOR:</b> Pigmented Liquid, Solvent Odor	

### SECTION 4: FIRE AND EXPLOSION HAZARD

<b>FLASH POINT:</b> 102°F/39°C PMCC	<b>FLAMMABLE LIMITS:</b> <u>LEL</u> <u>UEL</u>
	2.0 12.0

**EXTINGUISHING MEDIA:** Dry Chemical or Chemical Foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Summon professional fire fighters. Use full protective equipment including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build up or possible auto-ignition.

**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Vapors may cause flash fire. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product

# MS-200 BASE COMPONENT

or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

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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 eye irritation, 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 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, 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.

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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:** 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.

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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-200 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-200  
**HARDENER COMPONENT**

**CHEMICAL FAMILY:** Amine Compound

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** =3  
**Flammability** =1  
**Reactivity** =1

**NATIONAL STOCK NO:** 8010-01-397-3812, 8010-01-397-3814, 8010-01-397-3815, 8010 -01-397-3820  
**SPEC:** MIL-PRF-24667B, MIL-D-24483

**PREPARED BY:** J. Farrell

**DATE:** 03/14/07

**REVISION:** 8

**SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

<b>INGREDIENTS</b>	<b>CAS NO.</b>	<b>% WT.</b>	<b>OSHA</b>	<b>ACGIH</b>
Cycloaliphatic Amine	2855-13-2	20-30%	N.E.	N.E.
Benzyl Alcohol	100-51-6	25-35%	N.E.	N.E.
Methyl-N-Amyl-Ketone	110-43-0	12-18%	100ppm 50ppm	

(N.E. = Not Established)

**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 40CFR 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**

<b>BOILING POINT:</b> 296°F/146°C	<b>SPECIFIC GRAVITY:</b> 0.92
<b>VAPOR PRESSURE:</b> 2.14	<b>% VOLATILE BY VOL:</b> 40-50%
<b>VAPOR DENSITY:</b> 3.94 (AIR = 1)	<b>EVAPORATION RATE:</b> 0.4 (Butyl Acetate = 1)
<b>SOLUBILITY IN WATER:</b> Partially Soluble	<b>APPEARANCE AND ODOR:</b> Colorless Liquid, Solvent Odor

**SECTION 4: FIRE AND EXPLOSION HAZARD**

**FLASH POINT:** 102°F/38°C PMCC (SETAFLASH)

**FLAMMABLE LIMITS:** LEL UEL  
1.1 7.9

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

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

**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** Decomposition and combustion products may be toxic.

# MS-200 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 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 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, Aldehydes 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:** Remove all sources of ignition. 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 40CFR 261 on the basis of its ignitability. Dispose of in a licensed hazardous waste facility in accordance with applicable laws.

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**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.

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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.