

MATERIAL SAFETY DATA SHEET

MS-7C BASE COMPONENT

Document # 3250

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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-7C
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

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

NATIONAL STOCK NO: 8010-01-397-3986, 8010-01-397-3810, 8010-01-397-3987, 8010-01-397-3811
SPECIFICATION: MIL-PRF-24667B

PREPARED BY: J. Hermele

DATE: 03/27/01

REVISION: 6

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	% WT.	OSHA	ACGIH TLV	OTHER
Epoxy Resin	25068-38-6	10-25%	N.E.	N.E.	LD50RAT>5gKgOral
Titanium Dioxide	13463-67-7	<5%	5mg/m3 dust	10mg/m3 dust	
Calcium Magnesium Silicate	14807-96-6	10-25%	2mg/m3 dust	2mg/m3 dust	
Alumino-Silicate Mineral	37244-96-5	30-45%	10mg/m3 dust	10mg/m3 dust	
Aromatic Naphtha	64742-95-6	5-10%	50 ppm	50 ppm	
Methyl N-Amyl Ketone	110-43-0	5-10%	100ppmTWA	50ppmTWA	
1-Methoxy-2-Propanol	107-98-2	<5%	100 ppm	100 ppm	

Total Crystalline Silica Content Less Than 0.1%.

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
VAPOR PRESSURE: 8mmHg @ 68°F/20°C
VAPOR DENSITY: Heavier Than Air (AIR = 1)
SOLUBILITY IN WATER: Slight
APPEARANCE AND ODOR: Viscous Liquid, Solvent Odor

SPECIFIC GRAVITY: 1.5
MELTING POINT: N.E.
EVAPORATION RATE: 0.7 (Butyl Acetate = 1)

SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: >100°F/38°C SETA
FLAMMABLE LIMITS: LEL 1.62 UEL 11.8

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

SPECIAL FIRE FIGHTING PROCEDURES: Remove all ignition sources. 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: 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.
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.
Inhalation: Remove to fresh air. If symptoms persist consult a physician.
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-7C / MS-10C 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-7C / MS-10C
HARDENER COMPONENT

CHEMICAL FAMILY: Amine Compound

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

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

NATIONAL STOCK NO: 8010-01-397-3986, 8010-01-397-3910, 8010-01-397-3987, 8010-01-397-3811
SPECIFICATION: MIL-PRF-24667B

PREPARED BY: J. Hermele

DATE: 03/27/01

REVISION: 6

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	% WT.	OSHA PEL	ACGIH TLV
Polyamide/Epoxy Adduct	68424-41-9	60-80%	N.E.	N.E.
Amidoamine Resin	68443-08-3	5-10%	N.E.	N.E.
1-Methoxy-2-Propanol	107-98-2	20-35%	100 ppm	100 ppm

(N.E. = Not Established)

SECTION 313 SUPPLIER INFORMATION: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) 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 IN ALL MSDSs THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

CHEMICAL NAME	CAS NUMBER	WT. %
None		

SECTION 3: PHYSICAL DATA

BOILING POINT: 248°F/120°C
VAPOR PRESSURE: 12.5mmHg
VAPOR DENSITY: 3.12 (AIR = 1)
SOLUBILITY IN WATER: Partially Soluble
SPECIFIC GRAVITY: 0.96
MELTING POINT: N.A..
EVAPORATION RATE: 0.83 (Butyl Acetate = 1)
APPEARANCE AND ODOR: Amber Liquid, Solvent Odor

SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: 94°F/34.4°C PMCC

FLAMMABLE LIMITS: LEL UEL
1.5 10.9

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.

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: 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.

MS-7C / MS-10C HARDENER COMPONENT

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SECTION 5: HEALTH HAZARD DATA (Cont'd).

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, Aldehydes 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 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 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.