

# MATERIAL SAFETY DATA SHEET

## AS-250 BASE COMPONENT

Document # 1250

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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:** AS-250  
**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 = 3  
Reactivity = 1

**PREPARED BY:** J. Farrell

**DATE:** 3/1/05

**REVISION:** 1

### SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	% WT.	OSHA PEL	ACGIH TLV
Epoxy Resin	25068-38-6	10-20%	N.E.	N.E.
Xylene	1330-20-7	1-5%	100ppm	100ppm
Aromatic naphtha	64742-95-6	1-5%	100 ppm	100 ppm
Methyl Amyl Ketone	110-43-0	1-5%	100 ppm	50 ppm
Propylene Glycol Monomethyl Ether	107-98-2	1-5%	100ppm	100ppm
Carbon Black	1333-86-4	<5%	3.5mg/m3	3.5mg/m3
Titanium Dioxide	13463-67-7	<5%	10mg/m3	10mg/m3
Alumino-Silicate Mineral	37244-96-5	15-25%	10mg/m3	10mg/m3
Silicon Dioxide	14808-60-7	15-25%	10mg/m3 (respirable)	0.1mg/m3 See Sect. 5
Aluminum Oxide	1344-28-1	20-35%	15mg/m3	10mg/m3
Calcium Metasilicate	13983-17-0	1-5%	N.E.	10mg/m3

**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>
Xylene	1330-20-7	1-5%

### SECTION 3: PHYSICAL DATA

<b>BOILING POINT:</b>	>240°F/116°C	<b>SPECIFIC GRAVITY:</b>	1.91
<b>VAPOR PRESSURE:</b>	8mmHg @ 68°F/20°C	<b>MELTING POINT:</b>	N.A.
<b>VAPOR DENSITY:</b>	>1.0 (AIR = 1)	<b>EVAPORATION RATE:</b>	<1.0 (Butyl Acetate = 1)
<b>SOLUBILITY IN WATER:</b>	Soluble		
<b>APPEARANCE AND ODOR:</b>	Pigmented Viscous Paste, Mild Odor (N.A. = Not Applicable)		

### SECTION 4: FIRE AND EXPLOSION HAZARD

<b>FLASH POINT:</b> >81°F/27°C SETA	<b>FLAMMABLE LIMITS:</b>	LEL	UEL
		2.7	11.8

**EXTINGUISHING MEDIA:** Use Carbon Dioxide, Dry Chemical or 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.

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## SECTION 5: HEALTH HAZARD DATA

**PRIMARY ROUTES OF ENTRY:** Inhalation/Skin/Ingestion

### HEALTH HAZARDS (ACUTE AND CHRONIC)

Eyes: Severe Irritant. Aggregate may cause injury.  
Skin: Contains material that may be moderately toxic by absorption. May cause chemical burns and allergic skin reaction which can be severe in certain individuals.  
Inhalation: May cause headaches, nausea, dizziness and respiratory irritation if inhaled. May cause allergic respiratory reaction.  
Ingestion: No specific information available. Contains materials that may be slightly toxic.

**CONDITIONS AGGRAVATED BY EXPOSURE:** Allergy, eczema and other skin conditions.

**CARCINOGENIC DATA:** This product contains silicon dioxide/silica. The International Agency for Research on Cancer ("IARC") concluded that there was "sufficient evidence in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources.", the overall IARC evaluation was that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1). NTP, in its Ninth Annual Report on Carcinogens, has classified "silica, crystalline (respirable)" to be a carcinogen." Crystalline silica is not regulated by OSHA as a carcinogen. Since all silicon dioxide/silica is encapsulated in the coating no over exposure to airborne dusts is to be expected. However, during removal by mechanical abrasion, appropriate safety practices should be followed to prevent inhalation of airborne dusts.

The carbon black pigment in this product contains less than 0.1% polynuclear aromatic hydrocarbons (PAH), some of which, in non-adsorbed form, have been found to be carcinogens in animal studies. Carbon Black has not been listed by the NTP or OSHA. NIOSH recommends that only carbon blacks with a PAH level greater than 0.1% be considered suspect carcinogens. The International Agency for Research on Cancer ("IARC") classifies carbon black as a suspect human carcinogen based on animal studies. Since the carbon black is not present in respirable form and encapsulated in the coating no over exposure to airborne dusts is to be expected.

**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: Wash contact area with soap and water for 15 minutes. Remove and wash contaminated clothing before reuse.  
Inhalation: Remove to fresh air. Give oxygen if breathing is difficult. Get medical attention.  
Ingestion: Do not induce vomiting (contains solvent). Get medical attention.

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## 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.

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## SECTION 7: SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Eliminate all ignition sources. Dike Spills. 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

**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

\* Contaminated Clothing should be removed immediately and thoroughly laundered before reuse.

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