

MATERIAL SAFETY DATA SHEET

CF-100 BASE COMPONENT

Document #3010

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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: CF-100
BASE COMPONENT

CHEMICAL FAMILY: EPOXY

DOT SHIPPING CLASSIFICATION: (Not Regulated)
TRANSPORTATION EMERGENCY NO. (CHEMTREC): 1-800-424-9300
MFG'S DUNN'S NO: 002-171-213

HMIS RATING:
Health =2
Flammability =1
Reactivity =1

NATIONAL STOCK NO: **SPECIFICATION: (Type, Grade or Class)** **CONTRACT OR ORDER NO.**
MIL-D-24613 Type I, Class 2

PREPARED BY: J. Hermele

DATE: 07132007

REVISION: 5

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	% WT.	OSHA	ACGIH	OTHER
Bisphenol-A Diglycidyl Ether	25068-38-6	50-60%	N.E.	N.E.	LD50RAT>5g/kg Oral
Epichlorhydrin Polyglycol Reaction Product	41638-13-5	5-10%	N.E.	N.E.	LD50RAT>4g/kg Oral
Dodecachloro Cyclo Octene	13560-89-9	10-15%	N.E.	N.E.	LD50RAT>25g/kg Oral
Barium Metaborate Monohydrate	13701-59-2	5-10%	N.E.	N.E.	
Titanium Dioxide	13463-67-7	1-12%	10mg/m3 dust	10mg/m3 dust	

(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

BOILING POINT: > 300°F/149°C **SPECIFIC GRAVITY:** 1.2
VAPOR PRESSURE: < 1.0mmHg @ 68°F/20°C **MELTING POINT:** N.E.
VAPOR DENSITY: N.E. (AIR = 1) **EVAPORATIO RATE:**< 1.0 (Butyl Acetate = 1)
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: Pigmented Liquid, Mild Odor

SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: > 200°F/93°C PMCC **FLAMMABLE LIMITS:** LEL UEL
N.E. N.E.

EXTINGUISHING MEDIA: Carbon Dioxide or Dry Chemical for small fires; Aqueous Foam or Water Spray for large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and complete personal protective equipment where potential for exposure to vapors of products of combustion exists.

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

CF-100 BASE COMPONENT

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SECTION 5: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation/Skin/Ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC)

Eyes: May cause injury.

Skin: May cause irritation and sensitization. May cause allergic skin reaction which can be severe in certain individuals. May be absorbed through skin in harmful amounts.

Inhalation: May cause respiratory tract irritation, headache, dizziness and nausea.

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 and get medical attention.

Skin: Remove contaminated clothing and wash contact area with mild soap and water. If irritation develops or persists, get medical attention.

Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration and get medical attention.

Ingestion: If conscious, give large quantities of water to dilute and induce vomiting. 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 Hydrogen Chloride.

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. Flush contaminated area with water; prevent washings from entering waterways.

WASTE DISPOSAL METHODS: Dispose of in accordance with Federal, State and Local Regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator with organic vapor cartridge if required.

VENTILATION: 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 100°F/43°C in storage area.

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.

CF-100 HARDENER COMPONENT

Part 2 of 2

SECTION 5: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation/Skin Ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC)

Eyes: Causes irritation and chemical burns.

Skin: Causes irritation, burns, sensitization and/or allergic skin reaction which can be severe in certain individuals.

Inhalation: Causes nose and throat irritation, and allergic respiratory reaction.

Ingestion: Will cause esophageal damage if swallowed.

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 and wash contact area with mild soap and water. If swelling or reddening occurs, get medical attention.

Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting. If conscious, give large quantities of milk or 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: Avoid all personal contact. Dike Spill. Absorb with inert material and collect for disposal. Flush 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 corrosivity. 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: 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.

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.

MATERIAL SAFETY DATA SHEET

CF-100 FLAKE CHIPS

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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: CF-100
FLAKE CHIPS

CHEMICAL FAMILY: N.A.

DOT SHIPPING CLASSIFICATION (49 CFR 172.101): (Not Regulated)
TRANSPORTATION EMERGENCY NO. (CHEMTREC): 1-800-424-9300
MFG'S DUNN'S NO: 002-171-213

HMIS RATING:
Health =1
Flammability =0
Reactivity =0

NATIONAL STOCK NO: **SPECIFICATION: (Type, Grade or Class)**
MIL-D-24613 Type I Class 2

CONTRACT OR ORDER NO.

PREPARED BY: J. Hermele

DATE: 12/6/00

REVISION: 3

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	OSHA	ACGIH
Pigmented Vinyl Polymer Flake	Contents Partly Unknown	N.E.	N.E.

(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

BOILING POINT: N.A. **SPECIFIC GRAVITY:** N.E.
VAPOR PRESSURE: N.A. **MELTING POINT:** N.A.
VAPOR DENSITY: N.A. (AIR = 1) **EVAPORATION RATE:** N.A. (Butyl Acetate = 1)
SOLUBILITY IN WATER: Slight
APPEARANCE AND ODOR: Variously Pigmented Flakes, No Odor
(N.A. = Not Applicable)

SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: N.A. **FLAMMABLE LIMITS:** LEL UEL
N.A. N.A.

EXTINGUISHING MEDIA: None. Material is non-combustible.

SPECIAL FIRE FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: N.E.

CF-100 FLAKE CHIPS

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SECTION 5: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation

HEALTH HAZARDS (ACUTE AND CHRONIC)

Eyes: Particles may cause irritation.

Skin: N.A.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Inhalation: No statistical signs or evidence that acute or chronic health effects may occur in exposed employees.

Ingestion: N.A.

CONDITIONS AGGRAVATED BY EXPOSURE: N.E.

CARCINOGENIC DATA: Not on NTP, IARC or OSHA lists.

OVEREXPOSURE EFFECTS: N.E.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush with large quantities of water until all particles are washed out.

Skin: Wash with mild soap and water.

Inhalation: Remove to fresh air.

Ingestion: No specific information available. Not expected to present any health problems.

SECTION 6: REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: N.E.

INCOMPATIBILITY (Materials to Avoid): N.E.

HAZARDOUS DECOMPOSITION PRODUCTS: N.E.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 7: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Collect according to good housekeeping practices. Vacuum or scoop for recovery or disposal.

WASTE DISPOSAL METHODS: Dispose of in accordance with Federal, State and Local Regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required.

VENTILATION: Not required.

PROTECTIVE GLOVES: Not required.

EYE PROTECTION: Safety glasses or dust-tight goggles.

OTHER PROTECTIVE EQUIPMENT: Not required.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Standard industrial hygienic practice.