



MATERIAL SAFETY DATA SHEET

648
F-1013, 1013B

1. COMPANY AND PRODUCT IDENTIFICATION

CIBA-GEIGY CORPORATION
COMPOSITE MATERIALS
5115 E. LA PALMA AVENUE
ANAHEIM, CALIFORNIA 92807-2018

EMERGENCY PHONE NUMBERS:
SAFETY & HEALTH: (714) 779-9000
24 HOURS: (800) 888-8372
FAX: (714) 777-0628

PRODUCT NAME:

F-1013, 1013B

CHEMICAL NAME OR SYNONYMS:

Formulated Epoxy Resin

DATE ISSUED:

04/11/95

REVISION:

03

IMPORTANT:

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+ THIS MATERIAL WILL NOT BE SOLD FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT +
+ WITH MUCOUS MEMBRANES OR ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY, +
+ IS SPECIFICALLY INTENDED. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, CIBA- +
+ GEIGY CORPORATION IS NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE +
+ FOR SUCH USES, AND ASSUMES NO LIABILITY FOR ANY SUCH USES.
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HAZARD STATEMENT:

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+ THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE +
+ FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THIS PRODUCT IS +
+ CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.
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2. INGREDIENT INFORMATION

CHEMICAL IDENTITY	CAS NUMBER
BUTADIENE ACRYLONITRILE COPOLYMER	Trade Secret
EPOXY NOVOLAC POLYMER	Trade Secret
BISPHENOL-A EPOXY RESIN	Trade Secret
**ANTIMONY TRIOXIDE	1309-64-4

OCCUPATIONAL EXPOSURE TLV LIMITS(8HR)		
OSHA	ACGIH	CIBA
NE	NE	NE
NE	NE	NE
NE	NE	NE
0.5mg/m ³ , air, (as Sb), TWA		

**This chemical is considered to be a possible animal carcinogen by NTP..

E - Not Established, NA - Not Available.



SPILL OR LEAK PROCEDURES

IF MATERIAL IS SPILLED:

AVOID ALL PERSONAL CONTACT. TAKE UP WITH ABSORBENT MATERIAL. SHOVEL INTO CLOSABLE CONTAINERS. FLUSH AREA WITH WATER.

WASTE DISPOSAL METHOD:

DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

NONE REQUIRED UNDER NORMAL USE.

VENTILATION:

EXHAUST FANS IN CLOSED QUARTERS

HAND PROTECTION:

WEAR IMPERVIOUS GLOVES

EYE PROTECTION:

FLASH PROOF CHEMICAL GOGGLES

OTHER PROTECTION:

WEAR APPROPRIATE EQUIPMENT TO AVOID EYE OR SKIN CONTACT.

SPECIAL PRECAUTIONS

1. PREVENT ALL SKIN AND EYE CONTACT.

2. AVOID BREATHING VAPORS.

3. RE-SEAL PARTLY USED CONTAINERS.

4. ENSURE THAT ALL CONTAINERS ARE PROPERLY LABELLED TO PREVENT ACCIDENTAL INGESTION.

5. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES.

6. OBSERVE CONDITIONS OF GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICES.

THE DATA CONTAINED HEREIN IS BASED ON INFORMATION THAT FERMALITE BELIEVES TO BE RELIABLE, BUT NO EXPRESSED OR IMPLIED WARRANTY IS MADE WITH REGARD TO THE ACCURACY OF SUCH DATA OR ITS SUITABILITY FOR A GIVEN SITUATION.



3. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Light yellow resin.

MELTING POINT:

60C.

SOLUBILITY IN WATER:

Insoluble.

SPECIFIC GRAVITY:

1.2 (Water = 1.0)

PERCENT VOLATILE (BY WEIGHT):

<1%

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

Not determined.

EXTINGUISHING MEDIA:

Carbon dioxide, foam, dry chemical, water spray.

FIRE FIGHTING PROCEDURES- SPECIAL:

Use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Decomposition and combustion products may be toxic.

5. REACTIVITY DATA

STABILITY:

Stable.

CONDITIONS TO AVOID:

Avoid conditions over 250 F.

INCOMPATIBILITY:

Strong oxidizers, acids, and bases.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, and other toxic organic species.

HAZARDOUS POLYMERIZATION:

Will may occur if heated in bulk.

6. HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE:

Dermal.

SKIN IRRITATION:



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ON:

t.



SENSITIZATION:

Sensitizer.

OVEREXPOSURE EFFECTS:

Overexposure to this material can cause skin, eye, and respiratory irritation. Contains antimony compound considered a possible carcinogen by IARC.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Skin and eye conditions.

EMERGENCY AND FIRST AID PROCEDURES - EYES:

For eye contact, immediately flush eyes for at least 15 minutes, with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If doctor is not available, flush for an additional 15 minutes. Get medical attention.

EMERGENCY AND FIRST AID PROCEDURES - SKIN:

For skin contact, immediately wipe away excess material with a dry towel, while removing contaminated clothing and shoes. Any material adhering to skin should be removed with resin-removing creams. **Do not use solvents**.

EMERGENCY AND FIRST AID PROCEDURES - INGESTION:

If swallowed, immediately give at least 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give fluids again. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

EMERGENCY AND FIRST AID PROCEDURES - INHALATION:

If inhaled, remove from area to fresh air. Get immediate medical attention.

EMERGENCY AND FIRST AID PROCEDURES - OTHER:

Remove and wash contaminated clothing prior to reuse.

7. SPILL OR LEAK PROCEDURES

SPILL PROCEDURES:

Collect and place into a closable container for disposal. Wear protective equipment as specified below.

WASTE DISPOSAL METHODS:

Dispose by incineration, in accordance with local, state, and federal regulations.

8. SPECIAL PROTECTION INFORMATION

VENTILATION:

Work in well-ventilated areas.

PROTECTIVE GLOVES:

Work gloves recommended.

EYE PROTECTION:

Wear safety glasses or goggles.

RESPIRATORY PROTECTION:

Use NIOSH-approved organic vapor respirator, when vapor exposure is likely.

OTHER PROTECTIVE EQUIPMENT:

Wear protective clothing. Apply barrier cream for the protection of exposed skin.



9. SPECIAL PRECAUTIONS

HANDLING, SHIPPING, AND STORING PRECAUTIONS:

Warning! Causes irritation and harmful if ingested.
Avoid contact with eyes, skin, or clothing.
Avoid breathing vapors, mists, or sprays.
Use only with good ventilation.
Store in cool, dry area, in closed containers.
Wash thoroughly after handling, and before eating drinking, or smoking.

10. REGULATORY INFORMATION

DOT CLASS:

Not regulated.

RCRA STATUS:

Not regulated.

CERCLA STATUS:

Not regulated.

SARA/TITLE III - TOXIC CHEMICAL LIST:

This product does contain a toxic chemical for routine annual chemical-release reporting,
Under Sec. 313 (40 CFR 372).
2% max; Antimony compound, 1309-64-4

TSCA INVENTORY STATUS:

Chemical components listed on TSCA Inventory List.

For further Health/Safety information, contact: Oscar Zink, 714-779-9000

For Technical information, contact your Technical Sales Representative.

The information and recommendations contained herein, are based on data believed to be correct. However, no guarantee or warranty, expressed or implied, is made with respect to the information contained in this document.

