

MATERIAL SAFETY DATA SHEET

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CHEMICAL NAME

SECTION I IDENTIFICATION OF PRODUCT

TRADE NAME 4 Minute Epoxy Steel Hardener	PRODUCT CODE 44-2C <i>BRAVO # 44209</i>
SYNONYM OR CROSS REFERENCE Epoxy Hardener	PROPER SHIPPING NAME Resin Solution

SECTION II HAZARDOUS INGREDIENTS

MATERIAL Mercaptan Polymer	NATURE OF HAZARD Vapor may cause nausea or headache. Skin irritant.
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SECTION III PHYSICAL DATA

BOILING POINT N/A	MELTING POINT N/A
VAPOR PRESSURE N/A	SPECIFIC GRAVITY (water=1) 1.15
VAPOR DENSITY (AIR =1) >1	PERCENT VOLATILE BY VOLUME (%) < 95%
WATER SOLUBILITY Not soluble	EVAPORATION RATE (Ethyl Ether = 1) < 1
APPEARANCE White paste - slight mercaptan odor	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used) 350° F. COC	FLAMMABLE LIMITS Not established	Lower	Upper
FIRE EXTINGUISHING MEDIA Water, CO ₂ , Dry Chemical	SPECIAL FIRE-FIGHTING PROCEDURES Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter, especially if sprayed into containers of hot, burning liquid. Self-contained breathing apparatus with a full UNUSUAL FIRE AND EXPLOSION HAZARD/facepiece operated in pressure demand or other positive pressure mode.		
N/A			

SECTION V HEALTH HAZARD

THRESHOLD LIMIT VALUE N/A
HEALTH HAZARDS Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use with adequate ventilation.
FIRST AID PROCEDURES
<u>EYES</u> : Can cause irritation. Flush with excess water. Call a physician.
<u>SKIN</u> : Prolonged or repeated contact can cause moderate irritation, defatting and dermatitis. Wash with soap and water.
<u>INHALATION</u> : Excessive inhalation of vapors can cause nasal and respiratory irritation. Remove to fresh air.
<u>INGESTED</u> : Can cause gastrointestinal irritation, nausea, vomiting, diarrhea. Call a physician.

(Essentially similar to OSHA Form 20)

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE	X	CONDITIONS TO AVOID
	STABLE		Avoid contact with strong oxidants, epoxy resin/amine mixtures

INCOMPATIBILITY (materials to avoid)

Avoid contact with strong oxidants, epoxy resin/amine mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS When heated to decomposition will emit highly toxic fumes of SO₂.

HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID
	WILL NOT OCCUR		

SECTION VII SPILL AND DISPOSAL PROCEDURES

SPILLS Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and shovel into containers.

DISPOSAL

Disposal method must comply with Local, State and Federal Regulations.

SECTION VIII PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)

NIOSH approved respirator recommended

VENTILATION	LOCAL Exhaust	SPECIAL
	MECHANICAL (general) Acceptable	OTHER

PROTECTIVE GLOVES
Neoprene or equivalent

EYE PROTECTION
Safety glasses or goggles at all times

OTHER PROTECTIVE EQUIPMENT
Normal work clothing covering arms and legs

SECTION IX HANDLING AND STORAGE PRECAUTIONS

STORAGE & HANDLING

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this data sheet must be observed.

MISCELLANEOUS

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with U.S. Chemical or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.

Date issued: 7-18-86 Revision: _____

The information in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the company to make sure that the sheet is the latest one issued.