

MATERIAL SAFETY DATA SHEET

VersaChem Corporation
6643 42nd Terrace North
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(407) 845-2425

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SECTION I IDENTIFICATION OF PRODUCT

TRADE NAME Steel Weld Epoxy Resin	PRODUCT CODE 45-2C <i>#45209 BRAVO RESIN</i>
SYNONYM OR CROSS REFERENCE Epoxy Resin	PROPER SHIPPING NAME Resin Solution

SECTION II HAZARDOUS INGREDIENTS

MATERIAL Bisphenol A - Epichlorohydrin Resin 43% See Page 3 attached.	NATURE OF HAZARD Eye and 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) 1.17
VAPOR DENSITY (AIR = 1) > 1	PERCENT VOLATILE BY VOLUME (%) < 50%
WATER SOLUBILITY Not soluble	EVAPORATION RATE (Ethyl Ether = 1) < 1
APPEARANCE Dark, smooth paste	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used) COC > 200° F.	FLAMMABLE LIMITS N/A	Lower	Upper
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FIRE EXTINGUISHING

MEDIA Water, CO₂, 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

See Page 3 attached.

HEALTH HAZARDS Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use with adequate ventilation.

FIRST AID PROCEDURES

EYES: Can cause irritation. Flush with excess water. Call a physician.

SKIN: Prolonged or repeated contact can cause moderate irritation, defatting and dermatitis. Wash with soap and water.

INHALATION: Excessive inhalation of vapors can cause nasal and respiratory irritation. Remove to fresh air.

SWALLOWED: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea. Call a physician.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Open flame, sparks, excessive heat (above 100° F.) and/or contact with strong oxidizing agents.
	STABLE	X	
INCOMPATIBILITY (materials to avoid) Strong acids and/or strong oxidizing agents (like peroxides).			
HAZARDOUS DECOMPOSITION PRODUCTS Thermal decomposition will yield oxides of carbon (carbon monoxide and carbon dioxide) and acrid fumes.			
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Strong acids, strong oxidants and epoxy resins (amines/amids) where direct contact is under uncontrolled conditions.
	WILL NOT OCCUR		

SECTION VII SPILL AND DISPOSAL PROCEDURES**SPILLS**

Pick up large spills with inert absorbents like vermiculite or sand, and place in a proper container for disposal. Wash and clean up small spills with water and detergents.

DISPOSAL

Disposal method must comply with Local, State and Federal Regulations

SECTION VIII PROTECTION INFORMATION**RESPIRATORY PROTECTION (specify type)**

Ventilate with air flow to keep vapor concentration below TLV

VENTILATION Use in well ventilated area	LOCAL Exhaust	SPECIAL See Section IX
	MECHANICAL (general) Acceptable	OTHER
PROTECTIVE GLOVES Neoprene or equivalent recommended		EYE PROTECTION Goggles recommended to protect against accidental splashes

OTHER PROTECTIVE EQUIPMENT

Safety showers and eye wash fountains should be available.

SECTION IX HANDLING AND STORAGE PRECAUTIONS**STORAGE & HANDLING**

Keep away from extreme heat, open flame, or other sources of ignition. Do not store above 100° F. USE WITH ADEQUATE VENTILATION. DANGER: HARMFUL OR FATAL IF SWALLOWED! AVOID CONTACT WITH EYES! AVOID BREATHING OF VAPORS!

MISCELLANEOUS

Do not flame cut, braze, weld, or melt empty containers.

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 user's 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.

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PRODUCT RATING

HMIS LABEL CODE:

0 = least hazard to
4 = greatest hazard

HEALTH

FLAMMABILITY

REACTIVITY

3
1
1

PRODUCT: Steel Weld Epoxy Resin

SECTION II - LIST OF INGREDIENTS

45-2C	Weight % Range:	CAS #	TLV/PEL
Epoxy Resins	Less than 43%	25068-38-6	N/E *
Pigments & extenders:			**
Aluminum Powder		7429-90-5	TLV 10 mg/m ³
Iron Powder		65997-19-5	TLV 15 mg/m ³
Calcium Carbonate	Less than 59%	1317-65-3	TLV 10 mg/m ³ ACGIH 1977
Silica (SiO ₂)		7631-86-9	20 mppcf 8-hr. time weighted average
* Not Established ** Available data shows hazard as dust. In this product as sold and distributed, this material is wetted down limiting the extent and severity of the potential hazard.			
CARCINOGENICITY	NTP	IARC	OSHA
None			

7-18-86