

***** MATERIAL SAFETY DATA SHEET*****

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1. GENERAL INFORMATION

PRODUCT NUMBER: Cryo Bond 877
TRADE NAME & SYNONYMS: Cryogenic Adhesive
CHEMICAL FAMILY: Epoxy Resin

2. COMPOSITION / INFORMATION ON INGREDIENTS

Unlisted ingredients are not "hazardous" per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and / or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See section 8 for any additional exposure limit guidelines.

Chemical Name	CAS #	Percent	OSHA PEL
Epoxy resin	25068-38-6	70 - 100	Not established
Glycidyl ether	108-88-3	10 - 30	Not established

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Can cause eye irritation
Can cause skin irritation. May cause allergic skin reaction.

Harmful if swallowed.

HMIS RATING: HEALTH – 2 FLAMMABILITY – 1 REACTIVITY – 0
See section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION for personal protective equipment recommendations.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: Eye contact may cause moderate to severe eye irritation. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

SKIN: Can cause moderate skin irritation, defatting and dermatitis.

INHALATION: Can cause moderate respiratory irritation.

Inhalation of high concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache and lack of coordination.

INGESTION: Ingestion is not an anticipated route of exposure. Harmful if swallowed. Irritating to mouth, throat and stomach.

LONG TERM (CHRONIC) HEALTH EFFECTS

REPRODUCTIVE: Contains a substance that is a probable reproductive hazard based on human studies.

TARGET ORGAN(S): Lungs, Reproductive System, Liver, Central Nervous System, Blood, Kidneys.

REGULATED CARCINOGEN STATUS: Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: Lung disease, Liver disease, Blood disorders (like anemia).

4 FIRST AID MEASURES

IF IN EYES: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

IF VAPORS INHALED: Remove to fresh air. Restore breathing if necessary. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting and seek medical attention immediately. Drink 2 glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

5. FIRE FIGHTING MEASURES

FLASH POINT/METHOD: 200 degrees F SETA, > 93 degrees c

AUTOIGNITION TEMPERATURE: Not established

LOWER EXPLOSIVE LIMIT (% in air): Not established

UPPER EXPLOSIVE LIMIT (% in air): Not established

EXTINGUISHING MEDIA: Use water spray, foam, carbon dioxide, dry chemical.

UNUSUAL FIRE & EXPLOSION HAZARDS: None known

SPECIAL FIRE FIGHTING INSTRUCTIONS: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

HAZARDOUS COMBUSTION PRODUCTS: Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Wear rubber gloves and wipe up with absorbant material. Residue may be removed with chlorinated solvent.

7. HANDLING AND STORAGE

HANDLING:

Avoid skin contact with product at all times.

STORAGE:

Store in a cool, dry, location. Keep container closed.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

EYE PROTECTION: Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

SKIN PROTECTION: Avoid skin contact by wearing rubber gloves and long sleeved shirt. An apron may be appropriate if splashing can occur. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.

GLOVES: Rubber

RESPIRATORY PROTECTION Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air-purifying respirator with organic vapor cartridge. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

VENTILATION: General dilution ventilation or other engineering controls to minimize exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Black
ODOR:	Mild
ODOR THRESHOLD:	Not established
WEIGHT PER GALLON (lbs.):	9.8
SPECIFIC GRAVITY:	1.17
SOLIDS (% by weight):	100
PH:	Not Established
BOILING POINT (deg. C):	Not Established
FREEZING / MELTING POINT (deg C):	Not Established

VAPOR PRESSURE (mmHg.):	Not Established
VAPOR DENSITY:	Not Established
EVAPORATION RATE:	Not Established
OIL / WATER COEFFICIENT:	Not Established
VOC:	Not Established

10. STABILITY AND REACTIVITY

STABILITY:	Stable
CHEMICAL INCOMPATIBILITY:	Not Established
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not Established

11. TOXICOLOGICAL INFORMATION

No data available

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of it in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

14. TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

15. REGULATORY INFORMATION

FEDERAL

Toxic Substances Control Act (TSCA)

Section 4 – Test Rule

This product contains a chemical substance that is subject to a section 4 Test Rule.

Section 8 (B)- Inventory Status

This product is in compliance with the toxic Substances Control Act's Inventory Requirements.

Section 12 (b)- Export Notice Requirements

This product contains a chemical substance that is currently on the EPA's section 12 (b) Export List. Within seven days of entering into a contract to export and certainly no later than the day of export, the agent of export must notify the EPA of their intent.

SARA TITLE III

Section 313: This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

This MSDS not prepared for distribution in California.

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