

1. IDENTIFICATION OF MATERIAL AND SUPPLIER		
Material/Trade Name	Pioneer Plus Five Epoxy	
Material Type	Epoxy Adhesive	
Company	Republic Chemical Industries, Inc.	
Address	731 Aurora Boulevard, Quezon City, 1112 Philippines	
Telephone	+63 2 721 5781 to 86	
Fax	+63 2 727 5095	
Website	www.repchem.com	
2. HAZARDS IDENTIFICATION		
Inhalation	May be harmful if inhaled in large amounts or for prolonged periods. Can cause irritation of respiratory tract. Overexposure to fumes or vapor may cause delayed lung damage and chemical pneumonia.	
Skin Contact	May cause severe irritation or burns; may be corrosive on prolonged contact.	
Skin Absorption	Slightly toxic. May cause skin irritation on prolonged or repeated exposure.	
Eye contact	Can be corrosive to eye tissue leading to permanent damage and even blindness.	
Ingestion	May be harmful. May cause fatigue, muscular weakness, labored breathing and gastrointestinal irritation.	
Chronic Effects	Component B may cause dermatitis, lung injury or chemical pneumonia. May aggravate existing skin, eye or lung conditions.	
3. COMPOSITION/INFORMATION ON INGREDIENTS		
Chemical Identity	Proportion	CAS No
Liquid epoxy resin based on epichlorohydrin and Bisphenol A	50	25085-99-8
Mercaptan-terminated polymer	45	33007-83-9
2, 4, 6 Tri (Dimethylaminomethyl) Phenol	5	907-2-2

4. FIRST AID MEASURES	
Eye/Skin Contact	Flush thoroughly with plenty of water
Inhalation	Move to fresh air; if there are adverse reactions, call a physician
Oral ingestion	Immediately drink large quantities of milk or water and call a physician
5. FIRE FIGHTING MEASURES	
Extinguishing Media	Component A – water fog or fine spray, foam, carbon dioxide, dry chemical, alcohol resistant foam Component B – water spray
Unsuitable Extinguishing	Component A – direct water stream
Hazardous Decomposition	Carbon dioxide, carbon monoxide, and oxides of nitrogen
Special Procedures	Wear full protective equipment including self-contained breathing apparatus
6. ACCIDENTAL RELEASE MEASURES	
Spills/Leaks	Soak up in absorbent material such as sand and collect in suitable container. Flush area with plenty of water. Wear adequate personal protective clothing and equipment. Keep out of irrigation ditches, sewers and water supplies.
Disposal Method	Do not dump into any sewers, on the ground or into any body of water. Dispose in an approved chemical waste landfill. Disposal method must be in compliance with all Federal, state/Provincial and local laws and regulations.
7. HANDLING AND STORAGE	
Handling	Avoid use of electric band heaters. Application of direct flame to a container of Component A can also cause explosion and/or fire.
Storage	Recommended pumping and storage temperature is 60°C (140°F).
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Ventilation Requirement	Local exhaust
Eye/Face Protection	Use safety glasses
Skin Protection	Use long-sleeved protective clothing, face shield, gloves,

	boots. Remove contaminated clothing immediately, wash skin with soap and water, and launder clothing before use.
Respiratory Protection	Respirator with organic vapor cartridge.

9. PHYSICAL AND CHEMICAL PROPERTIES

A. UNCURED STATE	
Form	Epoxy
Color	Part A – Clear; slight yellow Part B – Clear; light amber
Consistency	Flowy
Solids Content	100%
Pot Life	3 to 5 minutes
Curing Time	Perfect bond in 5 minutes Maximum strength within 24 hours
Shelf Life	Very stable; indefinite
B. CURED STATE	
Tensile Strength	3,683 psi
Compressive Strength	9,773 psi
Flexural Strength	15,000 psi
Hardness (Shore D)	95 psi
Shrinkage	Nil
<p>*** The physical data represented above are typical values and should not be construed as a specification. For additional physical data and details on use, please obtain a data sheet for this product.</p>	

10. STABILITY AND REACTIVITY

Stable under recommended storage condition. See storage, section 7.
 Potentially violent decomposition can occur above 350°C (662°F).
 Generation of gas during decomposition can cause pressure in closed systems.
 Avoid contact with oxidizing materials, acids and bases, and amines.

11. TOXICOLOGICAL INFORMATION

Repeated skin contact may possibly cause dermatitis. May be harmful or cause irritation of respiratory tract if inhaled in large amount or for prolonged periods.

Overexposure to fumes and vapor may cause lung damage and chemical pneumonia.

12. ECOLOGICAL CONSIDERATION

Component A – Bio concentration potential is moderate. Potential for mobility in soil is low. Moderately toxic to aquatic organisms on an acute basis.

Component B – not determined.

13. DISPOSAL CONSIDERATIONS

Do not dump into any sewers, on the ground or into any body of water.
 Dispose in an approved chemical waste landfill.



MATERIAL SAFETY DATA SHEET

Disposable method must be in compliance with all Federal, state/Provincial and local laws and regulations.

14. TRANSPORT INFORMATION

Non-narcotic, non-toxic does not contain solvents that may cause transport hazards.

15. REGULATORY INFORMATION

SARA 313 Information

To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements

16. OTHER INFORMATION

None