



PRODUCT CODE: EPOXY / 03.19

**Epoxy Phenol PGE**

TYPE: Reactive epoxy diluent.

DESCRIPTION: Reactive epoxy diluent based on Phenol and Epichlorohydrine. (Phenyl Glycidyl Ether)

**SPECIFICATIONS:**

1) Appearance	Light Yellow Clear Liquid
2) Specific gravity @ 25 <sup>0</sup> C.	1.11 - 1.13
3) Viscosity @ 25 <sup>0</sup> C, by Brookfield viscometer Spindle #.00, 100 rpm, in cps.	5 - 15
4) Colour value (Gardner)	2 max.
5) Epoxide equivalent weight	150 - 180

**SOLUBILITY:**

Epoxy Phenol PGE is soluble in alcohols, ketones and aromatic hydrocarbons and is insoluble in water.

**COMPATIBILITY:**

Epoxy Phenol PGE is compatible with all grades of epoxy resins.

**APPLICATIONS:**

Epoxy Phenol PGE is used to reduce viscosity of liquid epoxy resins without altering its mechanical and electrical properties to a greater extent. Reduction in viscosity greatly improves wetting and filler loading capacity of epoxy resins. It can also be used in manufacture of hardeners based on epoxy polyamine adducts by replacing wholly or partly liquid epoxy resins by Epoxy Phenol PGE.

Epoxy Phenol PGE when used along with Synpol 200 and Hardener 111 gives following properties,

- There is increase in pot life.
- No change in exotherm temperature.
- Slight increase in water absorption.
- Very slight decrease in flexural strength.
- Slight increase in weight loss at 200<sup>0</sup> C after 48 hrs.
- Epoxy Phenol PGE has better viscosity reduction efficiency as compared to Epoxy Cresol CGE.

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## MATERIAL SAFETY DATA :

Product name	Epoxy Phenol PGE
Flash point <sup>0</sup> C. (Abel closed cup)	115
Flammability	Combustible
Toxicity	Mild toxic
Handling	Keep away from sources of ignition, provide all electric connections of flame-proof design. Wear safety glasses, rubber gloves and protective clothings.
Emergency treatment and measures	
1 Hygienic precautions	Adequate ventilations.
2 Hygienic treatments (First Aid)	Flush eyes thoroughly with water. Apply ophthalmic cortisone for conjunctivitis and keratities. Wash out contaminated skin with soap and water. Gastric lavage (stomach wash), if swallowed, followed by saline catharsis.
3 Fire precautions (in case of outbreaks)	Use dry chemical or carbon dioxide. Water spray may help to keep containers cool, to dilute leaked resins and to diffuse vapours.
Spills and leakage	Absorb liquid materials in sand and collect solid material and burn under hood in incinerator.
Disposal and waste treatment	Spray into furnace under controlled conditions.

### STORAGE:

Epoxy Phenol PGE should be stored in cool place under shade. The properties are so adjusted to have storage stability of minimum 6 months.

### PACKING:

25 kgs. M.S. drums, 50 kgs. Plastic carboys and 200 kgs. M.S. barrels.

### DISCLAIMER:

Information in this literature is to the best of our knowledge true and accurate. However, since conditions under which our products may be used are beyond our control, recommendations are made without warranty or guarantee.

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