



## **HSC 4112**

### **(Reactive diluent)**

#### **Product Description**

HSC 4112 is aliphatic di-functional epoxy reactive diluent based on 1,4-butane diol. It is compatible in all concentrations to help reduce the viscosity of the basic liquid resin. It can improve the toughness and offers excellent mechanical strength, shock resistance and crystal stability.

Combined with liquid epoxy resin, can be used in fiber reinforced plastic Molding processes where low viscosity is required such as / Resin Infusion Molding / Resin Transfer Molding suitable for epoxy embedding material, casting material, Encapsulating material, coating and adhesive.

#### **Features**

- Decreases the viscosity of epoxy resin,
- Increases the resin wettability of reinforced materials and padding,
- Provides good flexibility and also keeping the basic property of the curing agent.

#### **Applications**

- Civil engineering,
- Epoxy Floor Coating
- Epoxy coating for Grade applications,
- Adhesives,
- Pouring,
- Lamination and Encapsulations,
- Solid propellant binders.

#### **Product Specifications**

Properties	Units	Reference Standard	Value
Appearance	Visual	HTP-1	Clear Liquid
Color	Gardener	ASTM D 1544	Max 0.5
Viscosity @ 25°C	mPas	ASTM D 2196	10-20
Epoxy Equivalent Weight	gm/eq	ASTM D 1652	120-130
Hydrolysable chlorine	%	ASTM D 1726	Max 0.1

HTP: HSCL Testing Procedure

#### **Processing and Storage**

##### **Packing**

HSC 4112 is available in bulk packing of 220 Kg HDPE drums. Other packs are available on request.

**Safety & Handling**

Following instructions needs to be followed strictly. Keep working conditions clean. Allow fresh air in, if possible, provide ventilator. Avoid contact with human body directly, wear gloves and other personal protective equipment especially dust masks or respirators. Wash hands carefully with soap. If possible, wash with acetone and alcohol first, then soap and water. In case of eye contact, wash with running water for 15 minutes and then seek medical treatment.

Refer MSDS for better instruction on Safety & Handling.

**Storage Conditions**

HSC 4112 should be stored at room temperature free of moisture, in the original containers kept tightly closed at temperatures between 5-40°C. Container once opened should be tightly closed to avoid contamination by foreign materials. The shelf life of the resin is 24 months.

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**Disclaimer**

All recommendations for use of our products, whether given by us in writing, verbally or to be implied from results of tests carried out by us are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility. Therefore, the Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.

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