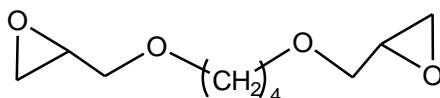


## Description

Lapox ARD-51 is a low viscosity, aliphatic diepoxide reactive diluent based on 1, 4 butane diol. It is compatible with all types of epoxy resins in any proportion. Resins diluted with it can be suitably cured by epoxy curing agents for variety of applications. High proportion imparts flexibility in cured system and hence affects glass transition temperature adversely.

## Chemical structure



## Advantages

- High resistance to solvents and ammonia
- Improves wetting and processability
- Practically no reduction of hardness
- Provides good flexibility
- Reduces viscosity while maintaining most cured properties

## Applications

- Civil engineering and flooring
- Electronic encapsulation
- FRP composites
- Structural adhesives
- Vacuum pressure impregnation

## Typical specifications

Properties	Unit	Test method	Values
Appearance	-	Visual	Clear liquid
Colour	GS	ASTM D1544	Max 1
Epoxy value	Eq/kg	ASTM D1652	7.0 - 7.8
Epoxy equivalent weight (EEW)	g/eq	ASTM D1652	128 - 143
Viscosity at 25°C	m Pas	ASTM D2196	10 - 22
Hydrolysable chlorine	%	ASTM D1726	Max 0.15

## Packaging

Lapox ARD-51 is available in 200 kg MS drums and 1,000 kg IBC. Other packing may be considered on request.

## Storage and handling

Lapox ARD-51 should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf life of 2 years if stored in its original container between 2°C and 40°C away from humidity and excessive heat.

## Safety

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, the resin should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet (SDS) of Lapox ARD-51 for detailed safety instructions.

# LAPOX<sup>®</sup> ARD-51

Technical Data Sheet | Polymers Business



## Spills and disposal

In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

## Contact

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Website: [www.atul.co.in](http://www.atul.co.in)

## Note

Lapox<sup>®</sup> is a registered trademark of Atul Ltd.

## Manufacturing site

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