



ELRASA – CEE™ (Bis-(2-Chloroethyl) Ether)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Colorless to pale yellow liquid
Physical Form	Liquid
Odor	Sweet, like chloroform
Molecular Weight (g/mol)	143.01
Density or Specific Gravity	1.22 g/mL at 25 °C(lit.)
Refractive Index	n _{20/D} 1.456(lit.)
Chemical Properties	
Water Solubility	Slightly soluble. 1.72 g/100 mL
Thermal Properties	
Melting Point	-47 °C(lit.)
Boiling Point	65-67 °C15 mm Hg(lit.)
Flash Point	131 °F

2. Processing Methods

Epoxy Adhesive Modifier

Mix thoroughly under mechanical stirring at room temperature or slightly elevated temperature. Incorporate curing agents (e.g., amines or anhydrides) after homogenization of the ether into the epoxy system.

Key Ingredients	Indicative Dosage (% w/w)
DCEE	10%
Epoxy resin (bisphenol-A type)	50%
Amine hardener	30%
Phenoxy reactive diluent	5%
Thixotropic filler	3%
Antioxidant stabilizer	2%



Rubber Vulcanization Aid

Incorporate it along with other vulcanization aids like accelerators, activators (e.g., ZnO, stearic acid), and sulfur. Proceed with standard vulcanization curing at specified time and temperature for the rubber type (e.g., NR, SBR, NBR).

Key Ingredients	Indicative Dosage (% w/w)
DCEE	5%
Rubber matrix (NR or SBR)	85%
Sulfur (vulcanizing agent)	3%
MBT accelerator	1%
CBS accelerator	0.5%
Antioxidant (e.g. PPD type)	0.5%
Processing oil/filler	5%

Textile Finishing Solvent

Blend it with other solvents first (e.g., toluene, ethanol, or butyl acetate) before adding any emulsifiers or finishing agents to prevent incompatibility. Do not mix with strongly alkaline or acid-crosslinking systems unless stability is tested.

Key Ingredients	Indicative Dosage (% w/w)
DCEE	12%
Fiber-finish wax	45%
Non-ionic emulsifier	8%
Water (balance of emulsion)	35%

3. Dosing by Application

Products	Authorized dosage %
Epoxy Adhesive Modifier	8-12%
Rubber Vulcanization Aid	3-6%
Textile Finishing Solvent	10-15%

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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