

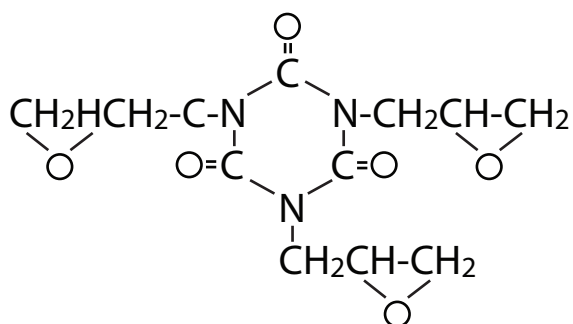
Niutang Triglycidyl Isocyanurate (TGIC)

FORMULA: C₁₂H₁₅N₃O₆

MOLECULAR WEIGHT: 297.0

FLASHPOINT: 170°C

CHEMICAL NAME: Tris (2,3-Epoxypropyl) Isocyanurate



DESCRIPTION:

Triglycidyl Isocyanurate (TGIC) is a highly stable epoxy resin. It is a white powder or granule with no discernible odor at room temperature. TGIC is slightly soluble in water (0.1%), and soluble in methanol (7%), toluene (3%) and isopropanol (1%). It reacts rapidly with primary and secondary amines, carboxylic acids and anhydrides, thiols, phenols, and alcohols. It can be polymerized with catalysts and may undergo intense autopolymerization.

CHARACTERISTICS/ SPECIFIC APPLICATIONS:

Test Item	Specification	Test Method or Reference
TGIC-G TGIC-P	Low UV Absorption High Heat Resistant Chemical Resistant	Outdoor Polyester Powder Coating Plastics, Rubber, Adhesives
TGIC-D	Low UV Absorption High Heat Resistant Low Chlorine Level Inhibits Deterioration and Electrolytic Corrosion	Encapsulate (LED, CCD) Solder Resistant Ink

OTHER APPLICATIONS:

Curing agent for polyester powder coatings
Ingredient for:

- Electrical Insulation Materials
- Laminated Sheets
- Printed Circuits
- Tools
- Adhesives
- Stabilizer For Plastics



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PACKAGING:

25-kg plastic bags or as otherwise agreed upon.

SHIPPING & HANDLING:

Low humidity conditions are recommended to minimize caking/degradation potentials. Keep container tightly closed and inner bag sealed.

STORAGE:

TGIC should be stored in a low humidity ambient environment.

SHELF LIFE:

The shelf life of this material is 1 year from the date of manufacture if stored in low humidity conditions. Product should be reevaluated if it exceeds expiration date.

Test Item	TGIC-G	TGIC-P	TGIC-D
Appearance	White Granule	White Powder	White Powder
Melting Range (°C)	90 to 120	95 to 120	95 to 120
Epoxy Equivalent	< 110	<110	< 105
Viscosity at 120° C	< 100 cp	< 100 cp	< 100 cp
Chlorine Content	< 1.5%	< 1.5%	< 0.12%
Volatile Matter	< 1.0%	< 1.0%	< 1.0%
Epichlorohydrin	< 50 ppm	< 50 ppm	< 50 ppm

LOT CODING:

Example Lot: 070475

07 = Year Manufactured: 2007

04 = Month Manufacture: April

75 = Batch manufactured: #75

CAS Number: 2451-62-9