

Trimethylane Carbonate

Overview:

This document details the product specified above. It includes general information about the chemical, necessary safety precautions, testing requirements, packaging information, storage requirements, length of shelf life, and product safety statement.

General Information:

Chemical Formula: C₄H₆O₃

Common Name: TMC

CAS Number: 2453-03-04

IUPAC Name: 1,3-Dioxane-2-one

Product Code: 052-02-022

Appearance: White crystalline solid

Molecular Weight: 102.1

Safety & Handling:

- Material is hygroscopic. Take appropriate caution when opening and storing.
 - Harmful if swallowed. Consult a physician.
 - Causes serious eye irritation.
 - Wear hand, clothing, and eye protection when handling.
 - If in eyes, immediately wash with plenty of water for at least 15 minutes.
 - If on skin, wash off with soap and plenty of water. Consult a physician.
 - If inhaled, move to fresh air. Consult a physician.
 - Fight fires with water spray, alcohol-resistant foam, dry chemical, or CO₂.
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Testing Requirements:

TEST	LIMITS
Appearance	White crystalline solid
Identity (FTIR)	Spectrum conforms to structure
Melt Point	44 - 47 °C
GC Purity	≥ 99.0% by area
Moisture	< 200 ppm
Residual Solvent	< 2000 ppm

Packaging:

- Product is packaged in a moisture resistant dry gas inerted foil bag.
- Packaging label should contain: **Batch Number, Material Name, Net Weight, Recommended Storage Conditions, and Safety Information.**

Storage & Expiration:

Recommended storage conditions: - 10 °C ± 10

Material Expires 3 months after the date of manufacture.

Product Statement:

This material does not contain substances which are carcinogenic, mutagenic or toxic to reproduction, disrupters of endocrine function, substances of the phthalates family, or, any of the following materials at concentrations greater than 0.1% by weight (1,000 ppm): Dicyclohexyl phthalate (DCHP), BPA (Bis-phenol A), Diisobutyl phthalate (DIBP), Benzyl butyl phthalate (BBP), Bis (2-ethylhexyl) phthalate (DEHP), or Dibutyl phthalate (DBP). There are no animal byproducts in this material.

