

# GELEST, INC.

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **METHALLYL CHLORIDE tech-95 - ENEM2040**  
CHEMICAL NAME: METHALLYL CHLORIDE  
SYNONYMS: 3-CHLORO-2-METHYLPROPENE; ISOBUTENYL CHLORIDE  
CHEMICAL FAMILY: ESTER  
FORMULA: C<sub>4</sub>H<sub>7</sub>Cl

HMIS CODES HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 0

## INGREDIENTS

IDENTITY	CAS NO.	%	TLV (TWA)	OSHA PEL (8H TWA)
METHALLYL CHLORIDE	563-47-3	>98	1ppm (3mg/m <sup>3</sup> )	1ppm (3mg/m <sup>3</sup> )

## PHYSICAL DATA

Boiling Point: 71-2°C	Freezing Point: -80°C
Specific Gravity: 0.925	Vapor Pressure, 20°: 102mm
Vapor Density (air = 1): 3.13	Solubility in water, 20°: 0.14%
% volatiles: 100	Evaporation rate (butyl acetate = 1): >1
Molecular Weight: 90.55	
Appearance & Color: clear liquid to straw yellow with sharp characteristic odor	

## FIRE & EXPLOSION DATA

Flash Point, COC: -10°C (14°F) Autoignition Temp.: 482°C  
Flammability Limits- LEL: 2.3% UEL: 9.3%

Extinguishing Media: Water spray or fog, foam, carbon dioxide, dry chemical.  
Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

-1-(ENEM2040)

## ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Incinerate. Follow all chemical pollution control regulations.

Harmful if released to aquatic environments.

Daphnia magna, EC50: 7.2mg/l (24H)

Leuciscus idus (bluegill fish), LC50: 22.5mg/l (96H)

## HEALTH HAZARD DATA

### DANGER OF SERIOUS HAZARD TO HEALTH ON PROLONGED EXPOSURE.

Eye Contact: Will cause immediate or delayed moderate eye irritation.

Skin contact: May cause skin irritation. Avoid Contact.

Inhalation: Irritation to the nose, pulmonary edema. Avoid inhalation.

Oral Toxicity- rat, LD50: 848mg/kg

Dermal Toxicity- rat, LC50: >10,000mg/kg

Chronic Exposure: This product has been reported to be reasonably anticipated to be a human carcinogenic based on NTP. IARC, EPA and OSHA have not identified or classified this compound as a human carcinogen. Mouse feeding and inhalation studies classify this material as an equivocal tumorigenic agent.

### SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. To conscious individual give one full cup of water to dilute ingested material. Get medical attention.

## REACTIVITY DATA

Stability: Stable

Conditions to avoid: Store away from oxidizers, amines, iron, aluminum chloride, magnesium, zinc.

Hazardous decomposition products: Organic acid vapors.

-2-(ENEM2040)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor respirator. If exposure is less than 25ppm air supplied respirator operated in a continuous flow mode is recommended. If exposure exceeds 25ppm a self-contained breathing apparatus with a full facepiece is recommended.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

## OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers.

### TRANSPORTATION

DOT SHIPPING NAME: METHYLALLYL CHLORIDE

DOT HAZARD CLASS: 3

DOT LABEL: FLAMMABLE LIQUID

DOT ID No: 2554

PG: II

Prepared by safety and environmental affairs

MSDS ISSUE DATE ENEM2040: 4/10/14  
SUPERSEDES: 11/4/13

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-3-(ENEM2040)

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