

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME ON LABEL: **TRIMETHYLGALLIUM -TETRAHYDROFURAN COMPLEX - OMGA079.4**  
CHEMICAL NAME: TRIMETHYLGALLIUM -TETRAHYDROFURAN COMPLEX  
SYNONYMS: TRIMETHYLGALLIUM -THF COMPLEX  
CHEMICAL FAMILY: ORGANOGALLIUM COMPOUND  
FORMULA: C<sub>3</sub>H<sub>9</sub>Ga.C<sub>4</sub>H<sub>8</sub>O  
HMIS CODES HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 2

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
TRIMETHYLGALLIUM -TETRAHYDROFURAN COMPLEX	not found	>95	not established
TETRAHYDROFURAN	109-99-9	<5	200ppm

**PHYSICAL DATA**

Boiling Point: >70°-dec.	Freezing Point: not determined
Specific Gravity: >1	Vapor Pressure: <10mm
Vapor Density (air=1): >1	Solubility in water: reacts
% volatiles: NA	Evaporation rate: NA
Molecular Weight: 186.94	Other: NA
Appearance & Color: clear to pale yellow liquid	

**FIRE & EXPLOSION DATA**

Flash Point, COC : not determined      Autoignition Temp.: not determined  
Flammability Limits: not determined

Extinguishing Media: Water spray, 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: May ignite spontaneously if heated and exposed to air. Irritating fumes or vapors may develop when material is exposed to water or open flame.

-1-(OMGA079.4)

## ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Cover spill with absorbent material. Transfer to a suitable container for disposal.

Recommended Disposal: Under an inert atmosphere slowly add isopropanol or methoxypropanol until exotherm stops, then slowly add water until exotherm stops. The mixture may be incinerated. Alternately, absorb onto clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

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

Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates of will irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Inhalation Toxicity: not determined

Oral Toxicity: not determined.

Chronic Toxicity: There are no known chronic effects related to this compound.

## 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. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

## REACTIVITY DATA

Stability: Stable in sealed containers stored under a dry inert atmosphere.

Conditions to avoid: Combustible; avoid contact with heat, sparks or open flame.

Incompatibility (materials to avoid): Reacts with air, water and moisture in air.

Avoid contact with alcohols, acids, oxidizers.

Hazardous decomposition products: Organic acid vapors, gallium oxide..

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## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor/amine gas respirator.

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 use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: ORGANOMETALLIC SUBSTANCE, WATER-REACTIVE, FLAMMABLE, N.O.S. (TRIMETHYLGALLIUM -TETRAHYDROFURAN COMPLEX)

DOT HAZARD CLASS: 4.3

DOT LABEL: FLAMMABLE LIQUID & DANGEROUS WHEN WET

DOT ID No: UN3399

PG: II

Prepared by safety and environmental affairs    MSDS ISSUE DATE OMGA079.4: 5/1/14  
SUPERSEDES: none

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