

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME ON LABEL: **TETRAMETHYLAMMONIUM TRIACETOXYBOROHYDRIDE - OMBO059**

CHEMICAL NAME: TETRAMETHYLAMMONIUM TRIACETOXYBOROHYDRIDE

SYNONYMS:

CHEMICAL FAMILY: BORON COMPOUND

FORMULA: C<sub>10</sub>H<sub>22</sub>BNO<sub>6</sub>

HMIS CODES HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV	OSHA PEL
TETRAMETHYLAMMONIUM TRIACETOXYBOROHYDRIDE	109704-53-2	>95	not established	not established

**PHYSICAL DATA**

Boiling Point: >175°C- dec

Specific Gravity: <1

Vapor Density: NA

% volatiles: <1

Molecular Weight: 263.10

Appearance & Color: Off-white solid

Melting Point: 70-80°C

Vapor Pressure: not determined

Solubility in water: reacts

Evaporation rate: NA

Other: NA

**FIRE & EXPLOSION DATA**

Flash Point, COC : >65°C (>150°F) 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: Irritating fumes and organic acid vapors may develop when material is exposed to water or open flame.

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## 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: May be incinerated. Alternately, mix with 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 eye irritation.

Skin contact: A single relatively short exposure causes no adverse effect. Several or prolonged exposures will cause mild irritation. Avoid Contact.

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

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.

Conditions to avoid: Store away from oxidizers, strong acids.

Caution: Can liberate highly flammable hydrogen gas

Hazardous decomposition products: Carbon monoxide, organic acid vapors and silicon dioxide.

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor/acid 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: Water-reactive solid, N.O.S. (TETRAMETHYLAMMONIUM  
TRIACETOXYBOROHYDRIDE)

DOT HAZARD CLASS: 4.3

DOT LABEL: Dangerous When Wet

DOT ID No: 2813 PG: II

Prepared by safety and environmental affairs    MSDS ISSUE DATE OMBO059: 5/14/14  
SUPERSEDES: 5/1/14

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