

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME ON LABEL: **PENTAMETHYLCYCLOPENTADIENYLTITANIUM TRIMETHOXIDE - OMTI052**

CHEMICAL NAME: PENTAMETHYLCYCLOPENTADIENYLTITANIUM TRIMETHOXIDE -

SYNONYMS:

CHEMICAL FAMILY: TITANOCENE

FORMULA: C₁₉H₁₅O₃Ti

HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
PENTAMETHYLCYCLOPENTADIENYLTITANIUM TRIMETHOXIDE	123927-75-3	>95		not established

PHYSICAL DATA

Boiling Point: 285°C
Specific Gravity: 1.081
Vapor Density, air =1: NA
% volatiles: < 3%
Molecular Weight: 276.21
Appearance & Color: yellow liquid

Melting Point: : <10°C
Vapor Pressure: <1mm
Solubility in water: insoluble
Evaporation rate: NA
Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: 61°C (142°F) Autoignition Temp.: not determined
Flammability Limits- LEL: NA UEL: NA

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-(OMTI052)

ENVIRONMENTAL INFORMATION

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

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

HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed eye irritation and may cause corneal ulceration.

Skin contact: May produce irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation may irritate the respiratory tract, cause headache or nausea.

Oral Toxicity: not determined

Inhalation Toxicity: not determined

Chronic Toxicity: not determined The related compound, bis(cyclopentadienyl)titanium dichloride, has the following findings: Tumorigenic by RTECS criteria

EPA GENETOX PROGRAM 1988, POSITIVE SHE-CLONAL ASSAY;
CELL TRANSFORM. RLV F344 RAT EMBRYO

EPA GENETOX PROGRAM 1988, NEGATIVE: HOST-MEDIATED ASSAY;
S CEREVISIAE-HOMOZYGOSIS

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 two full cups of water to dilute ingested material. Get medical attention.

REACTIVITY DATA

Stability:

Conditions to avoid: Avoid contact with oxidizing agents. Avoid high concentrations of dust.

Hazardous decomposition products: Organic acid vapors and titanium oxide.

-2-(OMTI052)

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor 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. Do not expose to light.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI

DOT HAZARD CLASS: not required

DOT LABEL: not required

DOT ID No: not required

Prepared by safety and environmental affairs

ISSUE DATE OMTI052: 7/24/09

SUPERSEDES: none

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-3-(OMTI052)

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