

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME: **PLATINUM - DIVINYLTETRAMETHYLDISILOXANE COMPLEX** in XYLENE - SIP6831.2
CHEMICAL NAME: PLATINUM - DIVINYLTETRAMETHYLDISILOXANE COMPLEX

solution in xylene

SYNONYMS: DIETHENYLTETRAMETHYLDISILOXANE - PLATINUM COMPLEX

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: $(C_8H_{18}OSi_2)_{1.5} Pt^0$

HMIS CODES HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
PLATINUM - DIVINYLTETRAMETHYLDISILOXANE COMPLEX (1.8-2.4 wgt % Pt)	68478-92-2	<10	not established	
XYLENE	1330-20-7	>90	TWA 100ppm	TWA 100ppm

PHYSICAL DATA

Boiling Point: 138°C initial (xylene)	Melting Point: <0°C
Specific Gravity: 0.89	Vapor Pressure, 21°C: 7mm (xylene)
Vapor Density, air = 1: >1	Solubility in water: insoluble
% volatiles: <90	Evaporation rate: NA
Molecular Weight: NA	Other: NA
Appearance & Color: Orange hazy liquid, characteristic mild odor	

FIRE & EXPLOSION DATA

Flash Point, COC: 38°C (100°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.

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ENVIRONMENTAL INFORMATION

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

Recommended Disposal: Return to manufacturer for precious metal recovery.

HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation. Temporary corneal effects are noted for xylene.

Skin contact: May produce irritation or contact dermatitis.

Inhalation: Inhalation may irritate the respiratory tract.

Xylene has been found to have experimental reproductive effects.

Oral Toxicity - rat, LD50: 4,300mg/kg (xylene)

Inhalation, man LCLo: 10,000ppm 6H (xylene)

Eye Irritation: rbt, 5mg/24H: Severe (xylene)

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. Will generate hydrogen gas in presence of hydridosilanes and protic materials such as water and alcohol.

Hazardous decomposition products: Xylene, organic acid vapors and silicon dioxide and platinum.

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 and industrial use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: XYLENES

DOT HAZARD CLASS: 3

DOT LABEL: FLAMMABLE LIQUID

DOT ID No: UN1307

PG: III

Prepared by safety and environmental affairs

ISSUE DATE SIP6831.2: 8/17/07

SUPERSEDES: 6/19/03

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