

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME: **DIMETHYL[BIS(CYCLOPENTADIENYL)SILYL]ZIRCONIUM DICHLORIDE - SID4045.0**  
 CHEMICAL NAME: DIMETHYL[BIS(CYCLOPENTADIENYL)SILYL]ZIRCONIUM DICHLORIDE  
 SYNONYMS: DIMETHYLSILYLENEBIS(CYCLOPENTADIENYL)ZIRCONIUM DICHLORIDE  
 CHEMICAL FAMILY: ZIRCONIUM COMPOUND  
 FORMULA: C<sub>12</sub>H<sub>14</sub>Cl<sub>2</sub>SiZr  
 HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV	OSHA PEL
DIMETHYL[BIS(CYCLOPENTADIENYL)SILYL]ZIRCONIUM DICHLORIDE	86050-32-0	>95		not established
OSHA PEL (Zr compounds): TWA 5mg(Zr)/m <sup>3</sup>				

**PHYSICAL DATA**

Boiling Point: not determined	Melting Point: >150°C
Specific Gravity: >1	Vapor Pressure, 20°: <0.01mm
Vapor Density (air =1): NA	Solubility in water: insoluble
% volatiles: < 3	Evaporation rate: NA
Molecular Weight: 348.46	Other: NA
Appearance & Color: Off-white to yellow crystals	

**FIRE & EXPLOSION DATA**

Flash Point, COC: >110°C (>230°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: 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

### 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 zirconium oxide.

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## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor / dust 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: CHEMICALS, NOI

DOT HAZARD CLASS: not required

DOT LABEL: not required

DOT ID No: not required

Prepared by safety and environmental affairs

ISSUE DATE SID4045.0: 6/10/11

SUPERSEDES: none

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