

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME: **CHROMIUM III 2,2,6,6-TETRAMETHYLHEPTANEDIONATE - AKC216** CHEMICAL NAME:  
CHROMIUM III 2,2,6,6-TETRAMETHYLHEPTANEDIONATE  
SYNONYMS: CHROMIC DIPVALOYL METHANE; CHROMIUM TMHD  
CHEMICAL FAMILY: CHROMIUM COMPOUND  
FORMULA: C<sub>33</sub>H<sub>57</sub>O<sub>6</sub>Cr  
HMIS CODES HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
CHROMIUM III 2,2,6,6-TETRAMETHYLHEPTANEDIONATE	14434-47-0	>95%	not established (OSHA PEL for chromium: 0.5mg(Cr)/m <sup>3</sup> )

**PHYSICAL DATA**

Boiling Point: 180°C at 0.1mm-sub	Melting Point: (216-9°C)
Specific Gravity: not determined	Vapor Pressure, 25°: <0.01mm
Vapor Density: NA	Solubility in water: insoluble
% volatiles: <2	Evaporation rate: NA
Molecular Weight: 601.82	Other: NA
Appearance & Color: dark purple crystalline powder	

**FIRE & EXPLOSION DATA**

Flash Point, COC: >200°C (>392°F) Autoignition Temp.: not determined  
Flammability Limits- LEL: NA UEL: NA

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 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: Dispose of as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

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

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 of dust or particulates may irritate the respiratory tract.

Oral Toxicity: not determined

Chronic 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. Get medical attention.

## REACTIVITY DATA

Stability: Stable

Conditions to avoid: Store away from oxidizers.

Hazardous decomposition products: Organic acid vapors and chromium oxide fumes.

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## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds PEL, NIOSH approved dust and mist 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 REGULATED

DOT LABEL: NOT REQUIRED

DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs AKC216 ISSUE DATE 10/2/02  
SUPERSEDES: 1/15/99

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