

GELEST, INC.

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MATERIAL SAFETY
 DATA SHEET

EMERGENCY TELEPHONE
 CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **SAMARIUM ISOPROPOXIDE - AKS676**
 CHEMICAL NAME: SAMARIUM ISOPROPOXIDE
 SYNONYMS: SAMARIUM TRIISOPROPOXIDE, SAMARIUM ISOPROPYLATE
 CHEMICAL FAMILY: SAMARIUM COMPOUND
 FORMULA: C₉H₂₁O₃Sm
 HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 1

INGREDIENTS

| IDENTITY | CAS NO. | % | TLV |
|--------------------------|-----------|------|---|
| SAMARIUM ISOPROPOXIDE | 3504-40-3 | >90% | not established (as Sm: 1mg/m ³) |
| SAMARIUMOXOISOPROPOXIDES | not found | >5% | not established (as Sm: 1mg/m ³) |

PHYSICAL DATA

| | |
|---|----------------------------------|
| Boiling Point: >210°C/0.01mm-sub | Melting Point: >230°C |
| Specific Gravity: not determined | Vapor Pressure: <0.001mm |
| Vapor Density: NA | Solubility in water: reacts |
| % volatiles: <3 | Evaporation rate: not determined |
| Molecular Weight: 286.62 | Other: NA |
| Appearance & Color: White to off-white solid, characteristic odor | |

FIRE & EXPLOSION DATA

Flash Point, COC: NA 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.

-1-(AKS676)

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: Material decomposes in contact with air by reaction with water.

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

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, 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 under an inert atmosphere.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS NOI

DOT HAZARD CLASS: None required

DOT LABEL: None required

DOT ID No: None required

Prepared by safety and environmental affairs

ISSUE DATE AKS676: 1/30/03

SUPERSEDES: 2/14/94

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