

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **TELLURIUM IV ETHOXIDE, 85% - AKT819**

CHEMICAL NAME: TELLURIUM IV ETHOXIDE

SYNONYMS: TELLURIUM TETRAETHOXIDE

CHEMICAL FAMILY: TELLURIUM COMPOUND

FORMULA: C₈H₂₀O₄Te

HMIS CODES HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
TELLURIUM ETHOXIDE	2017-01-8	>85	0.1mg(Te)/m ³	0.1mg(Te)/m ³
ETHANOL	64-17-5	<15	1000ppm	1000ppm

PHYSICAL DATA

Boiling Point: 78°C - initial (ethanol)

Specific Gravity: 1.52

Vapor Density, air =1: N/A

% volatiles: >10

Molecular Weight: 307.84

Appearance & Color: Dark amber liquid.

Melting Point: <0°C

Vapor Pressure: NA

Solubility in water: reacts

Evaporation rate: NA

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: 27°C (82°F)

Autoignition Temp.: not determined

Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Water spray or fog, alcohol resistant 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-(AKT819)

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 severe eye irritation and may cause corneal ulceration.

Skin contact: May produce irritation or contact dermatitis. *Absorbtion through the skin imparts a garlic-like odor to the breath which can take weeks to subside.* 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. *Inhalation even at less than 0.1mg Te/m³ can impart a garlic-like odor to the breath which can take weeks to subside.*

Oral Toxicity: not determined
Inhalation Toxicity: not determined
Eye Irritation: 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: Stable

Conditions to avoid: Material decomposes slowly in contact with moist air and rapidly in contact with water liberating ethanol and tellurium dioxide. Avoid contact with oxidizing agents.

Hazardous decomposition products: Ethanol, organic acid vapors and tellurium dioxide and tellurium metal.

-2-(AKT819)

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.

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID N.O.S. (TELLURIUM ETHOXIDE)

DOT HAZARD CLASS: 3

DOT LABEL: UN 1993

DOT ID No: FLAMMABLE LIQUID

PG: II

Prepared by safety and environmental affairs

ISSUE DATE AKT819: 3/3/03

SUPERSEDES: 10/18/95

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