

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **IRON (III) ETHOXIDE, 20-22% - AKI402**
CHEMICAL NAME: IRON III ETHOXIDE, 20-22% in tetrahydrofuran
SYNONYMS: FERRIC ETHOXIDE
CHEMICAL FAMILY: IRON COMPOUND
FORMULA: C₆H₁₅O₃Fe

HMIS CODES HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
IRON III ETHOXIDE	5058-42-4	20-22	not established
TETRAHYDROFURAN	109-99-9	<75	200ppm

PHYSICAL DATA

Boiling Point: 66° (initial, THF)	Melting Point: <0°C
Specific Gravity: 0.91	Vapor Pressure, 25°: not determined
Vapor Density, air =1: >1	Solubility in water: reacts, then dissolves
% volatiles: 75	Evaporation rate: N/A
Molecular Weight: 191.03	Other: N/A
Appearance & Color: Amber-brown solution, characteristic odor	

FIRE & EXPLOSION DATA

Flash Point, COC: 22°C (72°F) Autoignition Temp. not determined
Flammability Limits: not determined

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: Ventilate area. Eliminate ignition sources. Absorb material into oil absorbent type clay, scoop into a dry metal container and cover loosely. Take to a chemical disposal area. 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 vapors 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 slowly in contact with air by reaction with water and carbon dioxide, liberating ethanol.

Hazardous decomposition products: Organic acid vapors and iron 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.

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (TETRAHYDROFURAN)

DOT HAZARD CLASS: 3

DOT LABEL: FLAMMABLE LIQUID

DOT ID No: UN1993

PG: II

Prepared by safety and environmental affairs ISSUE DATE AKI402: 6/30/10

SUPERSEDES: 8/23/06

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