

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **PRASEODYMIUM METHOXYETHOXIDE, 16% AKP658**

CHEMICAL NAME: PRASEODYMIUM III METHOXYETHOXIDE SOLUTION

SYNONYMS: PRASEODYMIUM TRIS(METHOXYETHOXIDE)

CHEMICAL FAMILY: PRASEODYMIUM ALKOXIDE

FORMULA: C<sub>9</sub>H<sub>21</sub>O<sub>6</sub>Pr

HMIS CODES HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
METHOXYETHANOL	109-86-4	>75	25ppm (skin)
PRASEODYMIUM III METHOXYETHOXIDE	not found	<25	not established

**PHYSICAL DATA**

Boiling Point: 124-5°C (initial)

Specific Gravity: 1.00-1.02

Vapor Density: 2.6-2.7

% volatiles >75%

Molecular Weight: 366.17

Appearance & Color: Pale green to amber liquid; mild odor

Freezing Point: <0°

Vapor Pressure: not determined

Solubility in water: reacts

Evaporation rate: not determined

Other: N/A

**FIRE & EXPLOSION DATA**

Flash Point, TCC: 48°C (118°F)

Autoignition Temp.: 288° (methoxyethanol)

Flammability Limits-(methoxyethanol) LEL: 2.5% UEL: 19.8%

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-(AKP658)

## ENVIRONMENTAL INFORMATION

Spill response: Cover spill with absorbent material. Transfer to a suitable container for disposal.

Recommended Disposal: Dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation. The onset of irritation may not occur until several hours after exposure.

Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates of metal alkoxides may irritate the respiratory tract. Methoxyethanol can cause headaches, dizziness, drowsiness, irritation of eyes, tremor, ataxia, gastrointestinal disturbance, or weight loss. Methoxyethanol is listed as a potential mutagen.

Oral Toxicity: Not Determined.

Methoxyethanol, a hydrolysis product, toxicity is reported: oral-rat, LD50: 2460 mg/kg

Chronic Toxicity: There are no known chronic effects related to this compound.

Methoxyethanol, a hydrolysis product, is known to have a chronic effect on the central nervous system.

## 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. 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: Avoid water, moist air.

Incompatibility (materials to avoid): Oxidizers.

Hazardous decomposition products: Organic Acid Vapors.

-2-(AKP658)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection:

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. Protect against sunlight.

## TRANSPORTATION

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

DOT HAZARD CLASS: 3

DOT LABEL: FLAMMABLE LIQUID

DOT ID No: UN1993

PG: III

Prepared by safety and environmental affairs      ISSUE DATE AKP658: 1/28/03  
SUPERSEDES: 12/12/95

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