

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME ON LABEL: **CESIUM METHOXIDE 10% in METHANOL - AKC192**

CHEMICAL NAME: CESIUM METHOXIDE 10% in METHANOL

SYNONYMS: CESIUM METHYLATE

CHEMICAL FAMILY: METAL ALCOHOLATE

FORMULA: CH₃OCs

HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
CESIUM METHOXIDE	13106-69-9	8-12	not established	not established
METHANOL	67-56-1	88-92	200ppm	TWA: 100ppm

PHYSICAL DATA

Boiling Point: 65° (initial, methanol)	Freezing Point: <0°C
Specific Gravity: 0.85	Vapor Pressure, 20°: NA
Vapor Density (air =1): 1.1 (methanol)	Solubility in water: reacts, then dissolves
% volatiles: >80%	Evaporation rate: NA
Molecular Weight: 163.94	Other: NA
Appearance & Color: Clear to amber slightly viscous liquid	

FIRE & EXPLOSION DATA

Flash Point, COC: 16°C (61°F) Autoignition Temp.: not determined
Flammability Limits-methanol LEL: 6.0% UEL: 36.5%

Extinguishing Media: Dry chemical extinguisher, dry soda ash, alcohol-resistant foam.

Special Fire Fighting Procedures: Protect against caustic dust, smoke and water. Wear pressure demand self-contained breathing apparatus with full facepiece and full protective clothing.

Unusual Fire and Explosion Hazards: Irritating fumes and caustic vapors may develop when material is exposed to elevated temperatures or open flame.

-1-(AKC192)

ENVIRONMENTAL INFORMATION

Spill response: Ventilate area. Eliminate ignition sources. Absorb material into oil absorbent type clay. Take to a chemical disposal area, then flush with a copious amount of water, collecting all caustic wastewater for proper disposal.

Recommended disposal: Treat quantities of 500 grams or less by flooding with water. Water solution will be caustic. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Cesium methoxide will cause immediate or delayed severe caustic burns to the eyes.

Skin contact: Will cause severe irritation and burns. Worker will notice a slippery feeling on washing.

Inhalation: Inhalation will cause sneezing, irritation and burns.

Oral Toxicity: not determined Methanol: Human LDLo: 340mg/kg

Inhalation Toxicity: not determined

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes, holding eyes open. Get medical attention.

SKIN: Immediately flush with water for at least fifteen minutes.

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. Give a demulscent such as milk, olive oil, or margarine in small amounts, up to two or three tablespoons.

REACTIVITY DATA

Stability: Stable under nitrogen or argon in sealed containers. Reacts slowly with moisture and carbon dioxide in air

Conditions to avoid: Material decomposes slowly in contact with moist air and rapidly in contact with water. Avoid contact with moist air, water, acids, alcohols, ketones, esters, carbon dioxide, halogens.

Hazardous decomposition products: cesium hydroxide, methanol and caustic organic vapors.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, a NIOSH approved Caustic organic vapor-type respirator should be worn.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. Long-sleeved fire-resistant lab uniform or coverall is recommended. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store under dry nitrogen or argon in sealed containers.

TRANSPORTATION

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

DOT HAZARD CLASS: FLAMMABLE LIQUID

DOT LABELS: FLAMMABLE LIQUID, CORROSIVE

DOT ID No: UN 2924

Prepared by safety and environmental affairs MSDS ISSUE DATE AKC192: 1/18/13
SUPERSEDES: 10/21/03

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