

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME ON LABEL: **ALANE-DIMETHYLETHYLAMINE COMPLEX 0.5M in toluene - OMAL006**
 CHEMICAL NAME: ALANE-DIMETHYLETHYLAMINE COMPLEX 0.5M in toluene
 SYNONYMS: (N,N-DIMETHYLETHANAMINE)TRIHYDROALUMINUM in toluene
 CHEMICAL FAMILY: METAL HYDRIDE
 FORMULA: C₄H₁₁AlN
 HMIS CODES HEALTH: 4 FLAMMABILITY: 4 REACTIVITY: 2

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
ALANE-DIMETHYLETHYLAMINE COMPLEX	124330-23-0	10-14	not established	
TOLUENE	108-88-3	86-90	100ppm	150ppm

(PEL and TLV for aluminum alkyls as Al: 2mg/m³)

PHYSICAL DATA

Boiling Point: 111° (initial, toluene)	Melting Point: 11°C (neat)
Specific Gravity: 0.837	Vapor Pressure: 2mm
Vapor Density (air =1): >1	Solubility in water: reacts violently
% volatiles: NA	Evaporation rate: NA
Molecular Weight: 103.12	Other: NA
Appearance & Color: Clear solution, fumes in air with fishy (amine) odor.	

FIRE & EXPLOSION DATA

Flash Point, COC: -20°C (-4°F) Autoignition Temp.: not determined
 Flammability Limits: not determined

Extinguishing Media: Dry chemical powder followed by sand or dolomite
 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.

ENVIRONMENTAL INFORMATION

Spill response: Cover with dry chemical extinguishing powder, lime, sand or soda ash. Do not use water. Remove sources of ignition. Remove combustible materials in the vicinity of the spill. Allow time for decomposition or fire to burn out, then sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Incinerate. Follow all chemical pollution control regulations. This is a RCRA hazardous waste: 40 CFR 261.21 (i.e. ignitable) 40 CFR 261.23 (1.e. reactive)

HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe burns to the eyes.

Skin contact: Will cause irritation and burns.

Inhalation: Direct respiratory contact is usually not possible, but will cause burns. Inhalation of combustion products can cause irritation. Vapor inhalation of toluene may lead to impairment of coordination mental alertness, and reaction times, leading to accident proneness. Exposure to levels around 500ppm leads to narcotic effects including nausea, headache and mental confusion.

Oral Toxicity: Not determined

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

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 one full cup of water to dilute ingested material. Get medical attention.

REACTIVITY DATA

Stability: Stable in sealed containers under dry inert atmosphere. The product can generate small amounts of hydrogen when exposed to alkalis and protic materials such as water and alcohol.

Conditions to avoid: Store away from alkalis, oxidizers, metal salts, precious metals, chlorine, bromine. Hazardous decomposition products: Hydrogen, formaldehyde, carbon monoxide, organic amine vapors and aluminum oxides.

SPECIAL PROTECTION INFORMATION

Ventilation: Glove box or sealed system under inert atmosphere is required. Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor respirator.

Eye and Face Protection: Full face shield with chemical workers goggles.

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 and industrial use only.

Storage and Handling: Store in sealed containers.

Laboratory and production areas must be equipped with special fire-extinguishing media for pyrophorics. Flammable and combustible materials should not be stored in or near working areas for pyrophorics.

TRANSPORTATION

DOT SHIPPING NAME: PYROPHORIC LIQUID, ORGANIC, N.O.S.
(ALANE-DIMETHYLETHYLAMINE COMPLEX)

DOT HAZARD CLASS: 4.2

DOT LABEL: Spontaneously Combustible

DOT ID No: UN2845

PG: I

Air transport and UPS forbidden.

Prepared by safety and environmental affairs

ISSUE DATE: OMAL006: 6/17/05

SUPERSEDES: none

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