

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **ALLYL BROMIDE - ENEA0050**
CHEMICAL NAME: ALLYL BROMIDE
SYNONYMS: 3-BROMOPROPENE; 2-PROPENYL BROMIDE
CHEMICAL FAMILY: ESTER
FORMULA: C₃H₅Br

HMIS CODES HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV (TWA)	OSHA PEL (8H TWA)
ALLYL BROMIDE	106-95-6	>98	not established (ACGIH for allyl chloride: 1ppm)	not established (3mg/m ³)

PHYSICAL DATA

Boiling Point: 70-1°C	Freezing Point: -119°C
Specific Gravity: 1.398	Vapor Pressure, 20°: not determined
Vapor Density (air = 1): 4.17	Solubility in water, 20°: very slightly soluble
% volatiles: 100	Evaporation rate (butyl acetate = 1): 7
Molecular Weight: 120.98	
Appearance & Color: clear liquid to straw yellow with strong unpeasant odor, lachrymator	

FIRE & EXPLOSION DATA

Flash Point, COC: -2°C (28°F) Autoignition Temp.: 295°C
Flammability Limits- LEL: 4.4% UEL: 7.3%

Extinguishing Media: Water spray or fog, 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-(ENEA0050)

ENVIRONMENTAL INFORMATION

Spill response: Absorb onto vermiculite or other non-flammable material and transfer to a suitable container for disposal.

Recommended Disposal: Incinerate. Follow all chemical pollution control regulations.

Harmful if released to aquatic environments.

HEALTH HAZARD DATA

DANGER OF POSSIBILITY OF HAZARD TO HEALTH ON PROLONGED EXPOSURE.

Eye Contact: Mild lacrymator. Will cause immediate or delayed moderate eye irritation.

Skin contact: May cause skin irritation. Avoid Contact.

Inhalation: Irritation to the nose, pulmonary edema. Avoid inhalation.

Oral Toxicity- gpg, LD50: 30mg/kg

Please note data for analogous compound allyl chloride: rat, LD50: 460mg/kg

Chronic Exposure: No data. The analogous compound allyl chloride has been reported to be possibly carcinogenic based on IARCC, ACGIH, NTP, EPA or CDC classification. Mouse feeding and inhalation studies classify this material as an equivocal tumorigenic agent. (RTECS UC7350000/UC7026FO)

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

Conditions to avoid: Store away from oxidizers, amines, iron, aluminum chloride, magnesium, zinc.

Hazardous decomposition products: Organic acid vapors.

-2-(ENEA0050)

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 and industrial use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: ALLYL BROMIDE

DOT HAZARD CLASS: 3 SUB: 6.1

DOT LABEL: FLAMMABLE LIQUID & TOXIC

DOT ID No: 1099 PG: I

Prepared by safety and environmental affairs

ISSUE DATE ENEA0050: 12/14/12

SUPERSEDES: none

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