

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME ON LABEL: **SODIUM BIS-2-(ALLYLOXYMETHYL)BUTOXIDE 10% in TOLUENE-AKS727**  
 CHEMICAL NAME: SODIUM BIS-2-(ALLYLOXYMETHYL)BUTOXIDE 10% in TOLUENE  
 SYNONYMS: SODIUM TRIMETHYLOLPROPANEDIALLYLETHYER  
 CHEMICAL FAMILY: METAL ALCOHOLATE  
 FORMULA: C<sub>12</sub>H<sub>21</sub>O<sub>3</sub>Na  
 HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV	OSHA PEL
SODIUM BIS-2-(ALLYLOXYMETHYL)BUTOXIDE	not found	>8	not established	
TOLUENE	108-88-3	<85	100ppm	150ppm

**PHYSICAL DATA**

Boiling Point: 111° (initial, toluene)	Melting Point: <0°C
Specific Gravity: 0.88	Vapor Pressure: not determined
Vapor Density (air =1): >1	Solubility in water: reacts
% volatiles: >85	Evaporation rate: not determined
Molecular Weight: 236.28	Other: NA
Appearance & Color: Clear to amber liquid	

**FIRE & EXPLOSION DATA**

Flash Point, COC: 4°C (41°F)      Autoignition Temp.: not determined  
 Flammability Limits: LEL: 1.3%    UEL: 7.0%

Extinguishing Media: Dry chemical extinguisher, dry soda ash.

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-(AKS727)

## 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, 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: Will cause immediate or delayed severe caustic burns to the eyes.

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

Inhalation: 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. Particulates or vapor of the contained resin will irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity: Oral toxicity is associated with toluene which causes psychophysiological and bone marrow changes nausea, vomiting, headache, visual effects including blindness.

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

Chronic 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.

-2-(AKS727)

## REACTIVITY DATA

Stability: Stable under nitrogen or argon in sealed containers.

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: Sodium hydroxide, toluene and caustic organic vapors.

## 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.

Laundry 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. (TOLUENE)

DOT HAZARD CLASS: FLAMMABLE LIQUID

DOT LABELS: FLAMMABLE LIQUID, CORROSIVE

DOT ID No: UN 2924 PG: II

Prepared by safety and environmental affairs ISSUE DATE AKS727: 1/30/03

SUPERSEDES: 3/15/01

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