

# GELEST, INC.

11 East Steel Rd. Morrisville, PA 19067  
Phone: (215) 547-1015

MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **ANTIMONY n-BUTOXIDE - AKA090**

CHEMICAL NAME: ANTIMONY III n-BUTOXIDE

SYNONYMS: ANTIMONY BUTYLATE

CHEMICAL FAMILY: ANTIMONY COMPOUND

FORMULA:  $C_{12}H_{27}O_3Sb$

HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

## INGREDIENTS

IDENTITY	CAS NO.	%	TLV
ANTIMONY III n-BUTOXIDE	2155-74-0	>95	not established
(Sb <sub>2</sub> O <sub>3</sub> ACGIH TLV: TWA 500mg/m <sup>3</sup> )			

## PHYSICAL DATA

Boiling Point: 133-5° at 0.4mm	Melting Point: <0°C
Specific Gravity: 1.264	Vapor Pressure: <0.1mm
Vapor Density (air=1): >1	Solubility in water: reacts
% volatiles NA	Evaporation rate: N/A
Molecular Weight: 341.10	Other: N/A
Appearance & Color: Clear to pale yellow liquid; slight odor of n-butanol	

## FIRE & EXPLOSION DATA

Flash Point, COC: >110°C (>230°F) Autoignition Temp.: not determined  
Flammability Limits: not determined

Antimony n-butoxide is a combustible liquid.

Extinguishing Media: Foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid water spray as n-butanol will be generated. 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.

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## ENVIRONMENTAL INFORMATION

Spill response: Utilize non-flammable absorbent, then sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Absorb onto non-flammable solid, then dispose of as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors may irritate the respiratory tract.

Oral Toxicity: not determined

Chronic Toxicity: not determined

### 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. Get medical attention.

## REACTIVITY DATA

Stability: Stable

Conditions to avoid: Material decomposes slowly in contact with air by reaction with moisture, liberating n-butanol and antimony oxide. Avoid contact with water.

Hazardous decomposition products: Organic acid vapors and antimony oxide fumes.

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## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist 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: COMBUSTIBLE LIQUID, N.O.S.

DOT HAZARD CLASS: NOT REQUIRED

DOT LABEL: NOT REQUIRED

DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs AKA090 ISSUE DATE 5/24/05  
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