

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: SODIUM n-PROPOXIDE 20% in n-PROPANOL-AKS780
CHEMICAL NAME: SODIUM n-PROPOXIDE 20% in n-PROPANOL
SYNONYMS: SODIUM PROPYLATE
CHEMICAL FAMILY: METAL ALCOHOLATE
FORMULA: C₃H₇ONa
HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY:1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
SODIUM n-PROPOXIDE	6819-41-6	>15%	not established	
n-PROPANOL	71-23-8	>75%	200ppm	TWA: 200ppm

PHYSICAL DATA

Boiling Point: 97° (initial, n-propanol)	Melting Point: NA
Specific Gravity: 0.866	Vapor Pressure, 50°C: 40mm
Vapor Density, air =1: N/A	Solubility in water: reacts
% volatiles: >75	Evaporation rate: NA
Molecular Weight: 82.08	Other: N/A
Appearance & Color: Clear to amber, slightly viscous liquid	

FIRE & EXPLOSION DATA

Flash Point, COC: 23°C (72°F) Autoignition Temp. (n-propanol): 404°C
Flammability Limits-n-propanol LEL: 2.1% UEL: 13.5%

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.

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ENVIRONMENTAL INFORMATION

Spill response: Ventilate area. Eliminate ignition sources. Absorb material into oilabsorbent 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: Sodium n-propoxide 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: Inhalation will cause sneezing, irritation and burns.

Oral Toxicity: not determined

Inhalation Toxicity: not determined

Eye Irritation: 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.

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, n-propanol 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 and industrial use only.

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

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (n-PROPANOL)

DOT HAZARD CLASS: FLAMMABLE LIQUID

DOT LABELS: FLAMMABLE LIQUID, CORROSIVE

DOT ID No: UN 2924

PG: III

Prepared by safety and environmental affairs

ISSUE DATE AKS780: 4/3/13

SUPERSEDES: 2/18/03

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