

Material Safety Data Sheet 1-Bromopropane, 99%

MSDS# 91748 Section 1 - Chemical Product and Company Identification MSDS Name: 1-Bromopropane, 99% Catalog AC107310000, AC107310010, AC107310025, AC107310050, AC107312500, AC107315000 Numbers: AC107315000 Synonyms: n-Propyl bromide. Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Company Identification:

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Company Identification: (USA)	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:	800-ACROS-01
For information in Europe, call:	+32 14 57 52 11
Emergency Number, Europe:	+32 14 57 52 99
Emergency Number US:	201-796-7100
CHEMTREC Phone Number, US:	800-424-9300
CHEMTREC Phone Number, Europe:	703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#:	106-94-5	
Chemical Name:	1-Bromopropane	
%:	99	
EINECS#:	203-445-0	

Hazard Symbols:



Risk Phrases:

60 11 36/37/38 48/20 63 67

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable liquid and vapor. Harmful if inhaled. May cause liver damage. May cause nervous system effects. Possible risk of harm to the unborn child. Breathing vapors may cause drowsiness and dizziness. May impair fertility. Causes eye, skin, and respiratory tract irritation. Target Organs: Liver, nervous system, reproductive system.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

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- Ingestion: May cause irritation of the digestive tract.
- Inhalation: Harmful if inhaled. Causes respiratory tract irritation. May cause liver damage. Inhalation of vapors may cause drowsiness and dizziness.

Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. There are not enough human data on 1-bromopropane to determine whether the chemical has harmed human reproduction and

Chronic: development. However, research on lab rats shows 1-bromopropane can damage reproduction and development in that animal. Effects, such as a lengthened estrous (reproductive) cycle, occurred when female rats inhaled 1-bromopropane at concentrations of 250 ppm.				s	
		Section	n 4 - First Aid Measures		
Eyes:	-	with plenty of water for at immediately.	least 15 minutes, occasion	ally lifting the upper and lower eyelids. Get	
Skin:		ll aid. Flush skin with plen d shoes. Remove contami		ninutes while removing contaminated	
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water unconscious person. Get medical aid immediately.		r. Never give anything by mouth to an			
Inhalation: Get medical aid immediately. Remove from exposu give artificial respiration. If breathing is difficult, giv		1	to fresh air immediately. If not breathing,		
Notes to Physician:					
		Section 5	5 - Fire Fighting Measures		
General Information	General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approv or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Use water spra keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.		plosive mixture with air. Use water spray to he heat of a fire. Flammable liquid and		
Extinguishii Media:	^{ng} Use water	Use water spray, dry chemical, carbon dioxide, or appropriate foam.			
Autoignition Temperature: 490 deg C (914.00 deg F)					
	oint: -4.5 deg C	2 (23.90 deg F)			
Explosion 4.60 vol % Limits: Lower:					
2					
NFPA Ra	ting: health: 2; fl	ammability: 3; instability: 0	;		
		Section 6 - J	Accidental Release Measu	res	
General Information	Use prop	er personal protective equ	ipment as indicated in Sec	tion 8.	
Spills/Leak	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.				
Section 7 - Handling and Storage					
Wash thoroughly after handling. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product Handling: residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor or mist.			,		
Storage: Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.					
Section 8 - Exposure Controls, Personal Protection					
			NIOSH		
1-Bromo	propane	maa 011	Inone listed		

OSHA Vacated PELs: 1-Bromopropane: None listed Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility

and a safety shower.

Exposure Limits

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear, colorless

Odor: pleasant odor

pH: Not available

Vapor Pressure: 146 mm Hg @ 20 deg C

Vapor Density: 4.34 (air=1)

Evaporation Rate: Not available

Viscosity: 0.52 mPa.s @ 20 deg C

Boiling Point: 71 deg C @ 760 mm Hg (159.80°F)

Freezing/Melting Point: -110 deg C (-166.00°F)

Decomposition Temperature: Not available

Solubility in water: 2.5 g/l (20°C)

Specific Gravity/Density: 1.353 g/ml

Molecular Formula: C3H7Br

Molecular Weight: 122.99

Section 10 - Stability and Reactivity

Chemical Stability:		Stable under normal temperatures and pressures.
Conditions to Avoid:		Ignition sources, excess heat.
Incompatibilities with Other Materials		Strong oxidizing agents, aluminum, zinc.
Hazardous Decomposition Products		Carbon monoxide, carbon dioxide, hydrogen bromide.
Hazardous Polymerization		Has not been reported.
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Section 11 - Toxicological Information

RTECS#:	CAS# 106-94-5: TX4110000			
LD50/LC50:	RTECS:			
	CAS# 106-94-5: Inhalation, mouse: LC50 = 7100 mg/m3;			
	Inhalation, rat: $LC50 = 253 \text{ gm/m}3/30\text{M}$;			
	Inhalation, rat: $LC50 = 19700 \text{ mg/m3}$;			
	Oral, mouse: $LD50 = 4700 \text{ mg/kg};$			
	Oral, rat: LD50 = 3600 mg/kg;			
Carcinogenicity:	1-Bromopropane - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.			
Other:	See actual entry in RTECS for complete information.			
	Section 12 - Ecological Information			
Ecotoxicity:	Fish: Fathead Minnow: 67.3 mg/l; 96H; LC50			
	Daphnia: Daphnia: 208.9 mg/l; 24H; EC50			
	Section 13 - Disposal Considerations			
Dispose of in a manner consistent with federal, state, and local regulations.				
	Section 14 - Transport Information			

US DOT Shipping Name: BROMOPROPANES

Hazard Class: 3 UN Number: UN2344 Packing Group: II Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T F

Risk Phrases:

R 11 Highly flammable.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 48/20 Harmful : danger of serious damage to health by prolonged exposure through inhalation.

R 60 May impair fertility.

R 63 Possible risk of harm to the unborn child.

R 67 Vapours may cause drowsiness and dizziness.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 106-94-5: Not available

Canada

CAS# 106-94-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: B2, D2A, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 106-94-5 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 106-94-5 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 11/12/1998 Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.