# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.1 Revision Date 08/22/2008 Print Date 07/28/2010

	NY IDENTIFICATION			
Product name	: Bromocycloh	exane		
Product Number	: 135194			
Brand	: Aldrich			
Company	: Sigma-Aldrich			
	3050 Spruce St SAINT LOUIS N			
	USA			
Telephone	: +18003255832			
Fax	: +18003255052			
Emergency Phone #	: (314) 776-6555			
OMPOSITION/INFORM	ATION ON INGREDIENT	S		
Formula	: C6H11Br			
Molecular Weight	: 163.06 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	
Bromocyclohexane				
108-85-0	203-622-2	-	-	
AZARDS IDENTIFICATI	ON			
Emergency Overview OSHA Hazards	ON			
Emergency Overview OSHA Hazards Combustible Liquid	ON			
Emergency Overview OSHA Hazards	<b>ON</b>			
Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard: Flammability:				
Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard:	0			
Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating	0 2 0			
Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard:	0 2 0			
Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire:	0 2 0 0 2			
Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard:	0 2 0 0 2 0			
Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effects	0 2 0 0 2 0			
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Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effects Inhalation Skin	0 2 0 2 0 2 0 3 May be harmful if inha May be harmful if abso	orbed through skin. May cau		
Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effects Inhalation	0 2 0 0 2 0 3 May be harmful if inha	orbed through skin. May cau on.		
Emergency Overview OSHA Hazards Combustible Liquid HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effects Inhalation Skin Eyes	0 2 0 2 0 2 0 3 May be harmful if inha May be harmful if abso May cause eye irritatio	orbed through skin. May cau on.		

## General advice Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration In case of skin contact Wash off with soap and plenty of water. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. 5. FIRE-FIGHTING MEASURES Flammable properties Flash point 63 °C (145 °F) - closed cup Ignition temperature no data available Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary. 6. ACCIDENTAL RELEASE MEASURES Personal precautions Avoid breathing vapors, mist or gas. **Environmental precautions** Do not let product enter drains. Methods for cleaning up Keep in suitable, closed containers for disposal. 7. HANDLING AND STORAGE Handling Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Storage Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Contains no substances with occupational exposure limit values. Personal protective equipment **Respiratory protection** Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection For prolonged or repeated contact use protective gloves. Eye protection Safety glasses Sigma-Aldrich Corporation Aldrich - 135194 Page 2 of 5 www.sigma-aldrich.com

### **Hygiene measures** General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form	clear, liquid
Colour	colourless
Safety data	
рН	no data available
Melting point	no data available
Boiling point	166 - 167 °C (331 - 333 °F)
Flash point	63 °C (145 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.324 g/mL at 25 °C (77 °F)
Water solubility	no data available

## **10. STABILITY AND REACTIVITY**

## Storage stability

Stable under recommended storage conditions.

## Materials to avoid

Strong bases

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas

## **11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

no data available

## Irritation and corrosion

no data available

#### Sensitisation

no data available

### **Chronic exposure**

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	
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OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Signs and Symptoms of Exposure

Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **Potential Health Effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

## **12. ECOLOGICAL INFORMATION**

#### Elimination information (persistence and degradability)

no data available

#### Ecotoxicity effects

Toxicity to fishLC50 - Poecilia retiaculata (guppy) - 12 mg/l - 96 hToxicity to daphniaEC50 - Daphnia pulex (Water flea) - 5.979 mg/l - 48 hand other aquaticEC50 - Daphnia pulex (Water flea) - 5.979 mg/l - 48 h

invertebrates.

#### Further information on ecology

no data available

## **13. DISPOSAL CONSIDERATIONS**

#### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### **Contaminated packaging**

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

## DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

IATA Not dangerous goods

## **15. REGULATORY INFORMATION**

#### **OSHA Hazards**

Combustible Liquid

## **DSL Status** All components of this product are on the Canadian DSL list. SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Fire Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components CAS-No. **Revision Date** 108-85-0 Bromocyclohexane

New Jersey Right To Know Components

Bromocyclohexane

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

CAS-No.

108-85-0

Revision Date

## **16. OTHER INFORMATION**

#### **Further information**

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