

## SAFETY DATA SHEET

Issue Date 24-Jun-2025  
Revision Number 2.06

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Name** 1-Bromo-3-chloropropane  
**Other means of identification**  
**Product Code(s)** 026-05043,020-05046

**Recommended use of the chemical and restrictions on use**

**Recommended Use** For research use only.  
**Uses advised against** Seek expert judgment when using for purposes other than those recommended.

**Details of the supplier of the safety data sheet**

<b>Manufacturer Address</b>	<b>Distributor</b>
FUJIFILM Wako Pure Chemical Corporation	FUJIFILM Irvine Scientific
1-2, Doshomachi 3-Chome,	E. Warner Avenue, Santa Ana, CA 92705-5505, U.S.A.: +1 949 261 7800
Chuo-ku Osaka 540-8605, Japan	Fax: +1 949 261 6522
Tel : +81-6-6203-3741	
Fax: +81-6-6201-5964	

## 2. HAZARDS IDENTIFICATION

**GHS classification****Classification of the substance or mixture**

<b>Acute toxicity - Oral</b>	Category 4
<b>Acute toxicity - Inhalation (Vapors)</b>	Category 3
<b>Germ cell mutagenicity</b>	Category 2
<b>Carcinogenicity</b>	Category 1B
<b>Specific target organ toxicity (single exposure)</b>	Category 3
<b>Category 3</b> Narcotic effects	
<b>Specific target organ toxicity (repeated exposure)</b>	Category 1, Category 2
<b>Category 1</b> respiratory system	
<b>Category 2</b> liver	

**Pictograms****Signal word**

Danger

**Hazard statements**

H302 - Harmful if swallowed  
H331 - Toxic if inhaled  
H341 - Suspected of causing genetic defects  
H350 - May cause cancer  
H336 - May cause drowsiness or dizziness  
H372 - Causes damage to the following organs through prolonged or repeated exposure: respiratory system  
H373 - May cause damage to the following organs through prolonged or repeated exposure: liver

**Precautionary statements-(Prevention)**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use

personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary statements-(Response)**

IF exposed or concerned: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

**Precautionary statements-(Storage)**

Store locked up Store in a well-ventilated place. Keep container tightly closed

**Precautionary statements-(Disposal)**

Dispose of contents/container to an approved waste disposal plant

**Others**

**Other hazards** Not available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Single Substance or Mixture** Substance

**Formula** Br(CH<sub>2</sub>)<sub>3</sub>Cl

Chemical Name	Molecular weight	CAS RN	Weight-%
1-Bromo-3-chloropropane	157.44	109-70-6	98.0

**Impurities and/or Additives:** Not applicable

### 4. FIRST AID MEASURES

**First aid measures**

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing media**

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder. Sand.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion data**

**Sensitivity to Mechanical** none.

**Impact**

**Sensitivity to Static Discharge** none.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods and material for containment and cleaning up** Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Technical measures** Avoid contact with strong oxidizing agents.  
**Protective measures** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions** Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Store locked up.

**Packaging materials** Glass.

**Incompatible materials** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

**Exposure limits** Not applicable

**Personal protective equipment**

**Respiratory protection** gas mask for organic gas ( JIS T 8152 )  
**Hand protection** chemical protective gloves ( JIS T 8116 )  
**Eye protection** protective eyeglasses or chemical safety goggles (JIS T 8147)  
**Skin and body protection** Long-sleeved work clothes

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	
<b>Color</b>	Colorless - slightly yellow
<b>Turbidity</b>	clear
<b>Appearance</b>	liquid
<b>Odor</b>	no data available
<b>pH</b>	no data available
<b>Melting point/freezing point</b>	-59 °C
<b>Boiling point, initial boiling point and boiling range</b>	144 °C
<b>Flash point</b>	no data available
<b>Evaporation rate:</b>	no data available
<b>Flammability (solid, gas):</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	
<b>Upper:</b>	8.6 vol%
<b>Lower:</b>	3.2 vol%
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	5.4
<b>Specific Gravity / Relative density</b>	1.593 - 1.602 g/m L (20°C)
<b>Solubilities</b>	Ethanol , acetone : Very soluble. water : practically insoluble, or insoluble .
<b>n-Octanol/water partition coefficient:(log Pow)</b>	2.18
<b>Auto-ignition temperature:</b>	no data available
<b>Decomposition temperature:</b>	no data available
<b>Viscosity (coefficient of viscosity)</b>	no data available
<b>Dynamic viscosity</b>	no data available
<b>Particle characteristics</b>	no data available

## 10. STABILITY AND REACTIVITY

### Stability

<b>Chemical stability</b>	May be altered by light.
<b>Reactivity</b>	no data available

### Hazardous reactions

The substance decomposes on burning producing toxic or corrosive gases and fumes.

### Conditions to avoid

Extremes of temperature and direct sunlight

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Halides

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1-Bromo-3-chloropropane	680 mg/kg ( Rat )	3000 mg/kg ( Rabbit ) > 2000 mg/kg ( Rat )	1009 ppm ( Rat ) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas-source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust-source information	Acute toxicity -inhalation mist-source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

**Skin irritation/corrosion**

Chemical Name	Skin corrosion/irritation source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.

**Serious eye damage/ irritation**

Chemical Name	Serious eye damage/irritation source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.

**Respiratory or skin sensitization**

Chemical Name	Respiratory or Skin sensitization source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.

**Reproductive cell mutagenicity**

Chemical Name	germ cell mutagenicity source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.

**Carcinogenicity**

Chemical Name	Carcinogenicity source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH
1-Bromo-3-chloropropane 109-70-6	N/A	Group 2B	N/A	Group 2B

**Reproductive toxicity**

Chemical Name	Reproductive toxicity source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.

**STOT-single exposure**

Chemical Name	STOT -single exposure- source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.

**STOT-repeated exposure**

Chemical Name	STOT -repeated exposure- source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.

**Aspiration hazard**

Chemical Name	Aspiration Hazard source information
1-Bromo-3-chloropropane	Based on the NITE GHS classification results.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1-Bromo-3-chloropropane 109-70-6	N/A	LC50 : Carassius auratus 75 mg/L 24 h	N/A	N/A

**Persistence and degradability**

No information available

**Bioaccumulative potential**

No information available

**Mobility**

no data available

**Mobility in soil**

No information available

**Other Data**

No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Precautionary including method of disposing contaminated packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

### DOT

**UN/ID No** UN2688  
**Proper shipping name:** 1-Bromo-3-chloropropane  
**UN classification** 6.1  
**Subsidiary hazard class**  
**Packing group** III  
**Marine pollutant** Not applicable

### IATA

**UN/ID No** UN2688  
**Proper shipping name:** 1-Bromo-3-chloropropane  
**UN classification** 6.1  
**Subsidiary hazard class**  
**Packing group** III  
**Environmentally Hazardous Substance** Not applicable

### IMDG

**UN/ID No** UN2688  
**Proper shipping name:** 1-Bromo-3-chloropropane  
**UN classification** 6.1  
**Subsidiary hazard class**  
**Packing group** III  
**Marine pollutant (Sea)** Not applicable

## 15. REGULATORY INFORMATION

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
1-Bromo-3-chloropropane - 109-70-6	109-70-6	98.0	N/A

#### **SARA 311/312 Hazard Categories**

**Acute health hazard** No  
**Chronic Health Hazard** No  
**Fire hazard** No  
**Sudden release of pressure hazard** No  
**Reactive Hazard** No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
1-Bromo-3-chloropropane - 109-70-6	Carcinogen

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1-Bromo-3-chloropropane 109-70-6	X	N/A	N/A

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION

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#### Revision Note

No information available

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet