**Otto Chemie Pvt Ltd** 

An ISO 9001 : 2015 & GMP Certified Company Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT) Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

## MATERIAL SAFETY DATA SHEET (MSDS)

# SECTION 1: Product identifiers

Product Name : 1-Bromo-3-chloropropane, 99% Product Code : B 2100 CAS No: 109-70-6

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet Company identification OTTO CHEMIE PVT LTD No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number Phone no. : + 91 98200 41841 (10 : 00 am - 06 : 00 pm)

#### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Acute toxicity, (Category 4) Acute toxicity, (Category 3) Germ cell mutagenicity,

(Category 2) Specific target organ toxicity single exposure, (Category 3), Respiratory system Long-term (chronic) aquatic

hazard, (Category 3) 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H302 H331 H335 H341 H412 Precautionary Statements P202 P261 P273 P301 + P312

P304 + P340 + P311

P308 + P313 Supplemental Hazard Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard Statements H331 H341 H302: Harmful if swallowed. H331: Toxic if inhaled. H341: Suspected of causing genetic defects.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Danger

Harmful if swallowed. Toxic if inhaled. May cause respiratory irritation. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapors. Avoid release to the environment. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor. IF exposed or concerned: Get medical advice/ attention. none Danger

Toxic if inhaled. Suspected of causing genetic defects.

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H412	Harmful to aquatic life with long lasting effects.			
Precautionary Statements				
P202	Do not handle until all safety precautions have been read and			
	understood.			
P261	Avoid breathing mist or vapors.			
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable			
	for breathing. Call a POISON CENTER/ doctor.			
P308 + P313	IF exposed or concerned: Get medical advice/ attention.			
Supplemental Hazard				
Statements	none			
2.3 Other hazards				
This substance/mixture contains no components considered to be either persistent,				
	y persistent and very bioaccumulative (vPvB) at			
levels of 0.1% or higher.				
Ecological information:				
The substance/mixture does not contain	components considered to have endocrine			
	CH Article 57(f) or Commission Delegated regulation			
	tion (EU) 2018/605 at levels of 0.1% or higher.			
Toxicological information:	components considered to have and arriva			
	components considered to have endocrine			
	CH Article 57(f) or Commission Delegated regulation tion (EU) 2018/605 at levels of 0.1% or higher.			
(EO) 2017/2100 OF COMMISSION Regulat	1011 (EO) 2010/003 at levels of 0.1% of higher.			
SECTION 3: Composition/information	on ingradiante			
3 1 Substances	on ingredients			
Synonyms	: Trimethylene bromochloride			
Gynonyma	Trimethylene chlorobromide			
	I-BCP			
Formula	: C3H6BrCl			
Molecular weight	: 157,44 g/mol			
CAS-No.	109-70-6			
EC-No.	203-697-1			
Common and	Oleasification Concentration			

Component		Classification	Concentration
1-bromo-3-chlor	opropane		
CAS-No.	109-70-6	Acute Tox. 4; Acute Tox. 3; Muta.	<= 100 %
EC-No.	203-697-1	2; STOT SE 3; Aquatic Chronic 3;	
		H302, H331, H341, H335, H412	

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eve contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section

2.2) and/or in section 11

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4.3 Indication of any immediate medical attention and special treatment needed No data available

#### **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given. 5.2 Special hazards arising from the substance or mixture Carbon oxides Hydrogen chloride gas Hydrogen bromide gas Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. **SECTION 6: Accidental release measures** 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. 6.2 Environmental precautions Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. 6.4 Reference to other sections

For disposal see section 13.

### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling Advice on safe handling Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Hygiene measures Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities Storage conditions
Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage class
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects
7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

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### SECTION 8: Exposure controls/personal protection

8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eve/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Fluorinated rubber Minimum layer thickness: 0,7 mm Break through time: 480 min Splash contact Material: butyl-rubber Minimum layer thickness: 0,3 mm Break through time: 107 min data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de. test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario **Body Protection** protective clothing Respiratory protection Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state liquid b) Color No data available c) Odor characteristic Melting point: -58,90 °C d) Melting point/freezing point e) Initial boiling point 144 - 145 °C - lit. and boiling range f) Flammability (solid, No data available gas) g) Upper/lower Upper explosion limit: 8,6 %(V) flammability or explosive limits Lower explosion limit: 3.2 %(V) h) Flash point > 140 °C - open cup >= 550 °C i) Autoignition temperature not auto-flammable j) Decomposition No data available

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temperature k) pH I) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information No data available No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available 2.240 g/l at 25 °C log Pow: 2,18 - Bioaccumulation is not expected.

7,5 hPa at 20 °C 1,592 g/cm3 at 25 °C - lit. No data available No data available

No data available

No data available none

SECTION 10: Stability and reactivity 10.1 Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature) 10.3 Possibility of hazardous reactions Violent reactions possible with: hydrogen peroxide peroxi compounds strong alkalis Strong oxidizing agents Strong bases magnesium 10.4 Conditions to avoid Strong heating. 10.5 Incompatible materials No data available 10.6 Hazardous decomposition products In the event of fire: see section 5

# **SECTION 11: Toxicological information**

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

#### **SECTION 12: Ecological information**

12.1 Toxicity Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 55,9 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) -847 mg/l - 72 h

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12.2 Persistence and degradability		
Biodegradability aerobic - Exposure time		
Result: 36 % - Not inherently biodegrad	able.	
(OECD Test Guideline 301B)		
12.3 Bioaccumulative potential		
No data available		
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and vPvB assessm	ent	
This substance/mixture contains no con	ponents considered to be either persistent,	
	y persistent and very bioaccumulative (vPvB) at	
levels of 0.1% or higher.		
12.6 Endocrine disrupting properties		
Product:		
Assessment :	The substance/mixture does not contain component	onte
Assessment.		
	considered to have endocrine disrupting propertie	
	according to REACH Article 57(f) or Commission	
	Delegated regulation (EU) 2017/2100 or Commiss	sion
	Regulation (EU) 2018/605 at levels of 0.1% or hig	ner.
12.7 Other adverse effects		
Discharge into the environment must be	avoided.	
SECTION 13: Disposal consideration	5	
13.1 Waste treatment methods		
Product		
See www.retrologistik.com for processe	s regarding the return of chemicals and	
containers, or contact us there if you ha	ve further questions.	
hard 1		
SECTION 14: Transport information		
14.1 UN number		
ADR/RID: 2688	IMDG: 2688 IATA: 2688	a second
	IMDG: 2688 IATA: 2688	C.L.
14.2 UN proper shipping name		
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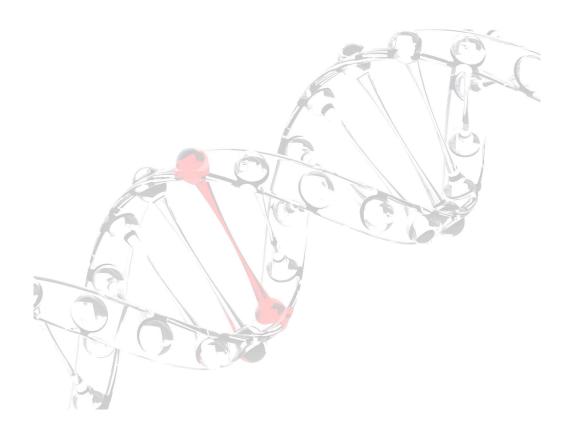
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Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out

### **SECTION 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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