

**MATERIAL SAFETY DATA SHEET**

Product Name: BROMINE

CAS No.: 7726-95-6

Version: 0

**1. Identification**

**Product Code** : 91848,90629  
**Company Name** : Advent Chembio Private Limited  
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**2. Hazards Identification****Hazard classification**

Acute toxicity, Inhalation : Category 2  
Skin corrosion : Category 1 B  
Acute aquatic toxicity : Category 1

**Labels elements**

Hazard symbol



**Signal word** : Danger  
**Hazard statement** : Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation.  
Very toxic to aquatic life with long lasting effects.  
**Precautionary statement** : Avoid breathing vapours.  
Avoid release to the environment.  
Wear protective gloves/ eye protection/ face protection.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

**3. Composition/information on ingredients**

**Ingredient** : Bromine  
**CAS No.** : 7726-95-6

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**Percent** : NA  
**Formula** : Br<sub>2</sub>  
**Molecular Weight** : 159.81 g/mol

**4. First Aid Measures****Description of first aid measures**

**General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

**Skin contact** : Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

**Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Swallowed** : Get medical advice/attention if you feel unwell. Rinse mouth.

**Most important symptoms and effects, both acute and delayed** : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

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

**Treatment**

**5. Fire fighting measures****Extinguishing media**

**Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture** : Hydrogen bromide gas Container explosion may occur under fire conditions.

**Advice for firefighters** : Wear self contained breathing apparatus for firefighting if necessary.

**6. Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures** : Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

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- Environmental precautions** : Do not let product enter drains.
- Methods and materials for containment and cleaning up** : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**7. Handling and storage**

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. 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. Do not store in polyethylene containers. Handle and open container with care.

**8. Exposure Controls / Personal Protection**

- Exposure limit** : No data available
- Appropriate engineering controls** : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
- Personal protective equipment**
- Respiratory protection : Dust respirator. Follow local and national regulations
- Hand protection : Protective gloves.
- Eye protection : Safety glasses. A face-shield, if the situation requires.
- Skin and Body Protection : Protective clothing. Protective boots, if the situation requires.

**9. Physical and Chemical Properties**

- Appearance** : A clear amber-coloured liquid.
- Odor** : No data available
- pH** : No data available
- Melting point/freezing point** : -7.2 °C
- Initial boiling point and boiling range** : 58.8 °C - lit.
- : No data available
- Flash Point**
- Vapor pressure** : 175 mmHg at 20 °C
- Vapor density** : 5.52 - (Air = 1.0)
- Relative density** : 3.119 g/mL at 25 °C
- Solubility in water** : 36.5 g/l at 20 °C
- Solubility (other)** : No data available

**10. Stability and Reactivity**

- Reactivity** : No data available

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<b>Chemical stability</b>	: Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	: No data available
<b>Conditions to avoid</b>	: Heat, flames and sparks.
<b>Incompatible materials</b>	: Reducing agents, Alkali metals, Powdered metals, Aluminum, Stainless steel, Iron, Copper, Organic materials, Bromine will attack some types of plastics, rubber, and coatings, Aldehydes, Ketones, arsenic powder, Amines, Amides, phenols, Alcohol, reacts violently with:, Ammonia, Azides, Ozone
<b>Hazardous decomposition products</b>	: Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas

**11. Toxicological Information****Information on toxicological effects**

<b>Acute toxicity</b>	: No data available
<b>Skin corrosion/irritation</b>	: No data available
<b>Serious eye damage/eye irritation</b>	: No data available
<b>Respiratory or skin sensitization</b>	: No data available
<b>Germ cell mutagenicity</b>	: No data available
<b>Carcinogenicity</b>	
IARC	: No data available
NTP	: No data available
OSHA	: No data available
<b>Reproductive toxicity</b>	: No data available
<b>Route of Exposure</b>	: No data available
<b>Signs and Symptoms of Exposure</b>	: No data available

**12. Ecological Information**

<b>Toxicity</b>	: No data available
<b>Persistence and degradability</b>	: No data available
<b>Bioaccumulative potential</b>	: No data available
<b>Mobility in soil</b>	: No data available.
<b>Other adverse effects</b>	: Very toxic to aquatic life with long lasting effects.

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- Disposal instructions** : Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging** : Dispose of as unused product.

**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	1744	BROMINE	8 (6.1)	I	NO
<b>IMDG</b>	1744	BROMINE	8 (6.1)	I	NO
<b>IATA</b>	1744	BROMINE	8 (6.1)	I	NO

**15. Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date :**06/02/2016**Version** : 0

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