

**MATERIAL SAFETY DATA SHEET****Product Name:** Cetyltrimethylammonium bromide**CAS No.:** 57-09-0**Version:** 0**1. Identification**

**Product Code** : 90138, 90362  
**Company Name** : Advent Chembio Private Limited  
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**2. Hazards Identification****Hazard classification**

Acute toxicity, Oral : Category 4  
Skin irritation : Category 2  
Serious eye damage : Category 1  
Specific target organ toxicity - single exposure : Category 3  
Specific target organ toxicity - repeated exposure : Category 2  
Acute aquatic toxicity : Category 1

**Label elements****Hazard symbol****Signal word** : Danger**Hazard statement** : Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation.  
May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure if swallowed.  
Very toxic to aquatic life.**Precautionary statement** : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wear eye protection/ face protection.  
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

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**Other hazards which do not result in GHS classification** : rinsing. Immediately call a POISON CENTER or doctor/physician.  
: None

**3. Composition/information on ingredients**

<b>Ingredient</b>	<b>CAS No</b>	<b>Percent</b>
Cetyltrimethylammonium bromide	57-09-0	NLT- 98.0%

**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** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact** : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**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 Treatment** : No data available

**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** : Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen bromide gas

**Advice for firefighters** : Wear self contained breathing apparatus for fire fighting if necessary

**Further information** : No data available

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- Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Reference to other sections** : For disposal see section 13.

**7. Handling and Storage**

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
Non Combustible Solids
- Specific end use(s)** : No data available

**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls**

**Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection** : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection Hand 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.

**Body Protection** : Complete suit protecting against chemicals, The type of protective

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**Respiratory protection** : equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
: Respiratory protection is required.

**9. Physical and Chemical Properties**

**Appearance** : White solid  
**Odor** : No data available  
**pH** : 5.0 - 7 at 36,4 g/l at 25 °C  
**Melting point/freezing point** : 248 - 251 °C  
**Initial boiling point and boiling range** : No data available  
**Flash Point** : 244 °C  
**Vapor pressure** : No data available  
**Vapor density** : No data available  
**Relative density** : No data available  
**Solubility in water** : 36.4 g/l at 20 °C - completely soluble  
**Solubility (other)** : No data available  
**Formula** : C<sub>19</sub>H<sub>42</sub>BrN  
**Molecular Weight** : 364.45 g/mol

**10. Stability and Reactivity**

**Reactivity** : No data available  
**Chemical stability** : Stable under recommended storage conditions.  
**Possibility of hazardous reactions** : No data available  
**Conditions to avoid** : Avoid moisture  
**Incompatible materials** : Strong oxidizing agents  
**Hazardous decomposition products** : No data available

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

**Acute toxicity** : LD50 Oral - Rat - 410 mg/kg  
**Skin corrosion/irritation** : Moderate skin irritation  
**Serious eye damage/eye irritation** : Severe eye irritation  
**Respiratory or skin sensitization** : No data available  
**Germ cell mutagenicity** : No data available

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**Carcinogenicity** : 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.

**Reproductive toxicity** : No data available

**Specific target organ toxicity - single exposure** : Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure** : Oral - May cause damage to organs through prolonged or repeated exposure. - Gastrointestinal tract

**Aspiration hazard** : No data available

**Potential health effects**

**Inhalation** : No data available

**Ingestion** : No data available

**Skin** : No data available

**Eyes** : No data available

**Signs and Symptoms of Exposure** : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### 12. Ecological Information

**Toxicity** : Toxicity to fish :  
LC50 - Danio rerio (zebra fish) - 0,3 mg/l - 96,0 h

Toxicity to daphnia and other aquatic invertebrates :  
EC50 - Daphnia magna (Water flea) - 0,03 mg/l - 48 h

**Persistence and degradability** : No data available

**Bioaccumulative potential** : No data available

**Mobility in soil** : No data available

**Other adverse effects** : Very toxic to aquatic life.

### 13. Disposal consideration

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated packaging** : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

	UN No.	UN proper shipping	Hazard	Packaging	Marine Pollutant

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		<b>name</b>	<b>Class(es)</b>	<b>group</b>	
<b>DOT</b>	3077	Cetrimonium bromide	9	III	Yes
<b>IMDG</b>	3077	Cetrimonium bromide	9	III	Yes
<b>IATA</b>	3077	Cetrimonium bromide	9	III	Yes

**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 :01/08/2014****Version : 0**

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