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# MATERIAL SAFETY DATA SHEET (MSDS)

## SECTION 1: Product identifiers

Product Name : Benzyltrimethylammonium chloride, 98% Product Code : B 1688 CAS No: 56-93-9

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 3) Acute toxicity, (Category 4) Acute toxicity, (Category 3) Germ cell mutagenicity, (Category 2) defects. Long-term (chronic) aquatic

hazard, (Category 3). 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H301 + H311 H332 H341 H412 Precautionary Statements P202 P273

P280 P301 + P310 P302 + P352 + P312

P304 + P340 + P312

Supplemental Hazard Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard Statements H341 H412 H301 + H311 Precautionary Statements P202 H301: Toxic if swallowed. H332: Harmful if inhaled. H311: Toxic in contact with skin. H341: Suspected of causing genetic

H412: Harmful to aquatic life with long lasting effects

Danger

Toxic if swallowed or in contact with skin. Harmful if inhaled. 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 release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of water.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 you feel unwell. none

Danger

Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects. Toxic if swallowed or in contact with skin.

Do not handle until all safety precautions have been read and

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doctor if you feel unwell.

Wear protective gloves/ protective clothing/ eye protection/ face

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/

understood.

protection.

P301 + P310 P302 + P352 + P312

P280

Supplemental Hazard Statements none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very 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 disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

3.1 Substances	
Formula	: C10H16CIN
Molecular weight	: 185,69 g/mo
CAS-No.	: 56-93-9
EC-No.	: 200-300-3

	line .		
Component		Classification	Concentration
Benzyltrimet	hylammonium chloride		y and
CAS-No. EC-No	56-93-9 200-300-3	Acute Tox. 3; Acute Tox. 4; Acute Tox. 3; Muta. 2; Aquatic Chronic 3; H301, H332, H311, H341, H412	<= 100 %

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. Call a physician immediately.

In case of eye contact

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

If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

(20 - 40 g in a 10% slurry) and consult a doctor as quickly as possit 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

4.3 Indication of any immediate medical attention and special treatment needed

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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 Nitrogen oxides (NOx) Hydrogen chloride gas Combustible. 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: Avoid generation and inhalation of dusts in all circumstances. 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. Dispose of properly. Clean up affected area. Avoid generation of dusts. 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 Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Handle under argon. Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to gualified or authorized persons. hygroscopic Moisture sensitive. Storage class Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials 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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## 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 This recommendation applies only to the product stated in the safety data sheet. supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L **Body Protection** protective clothina Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3 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 crystals b) Color colorless characteristic c) Odor d) Melting Melting point/range: 239 °C - dec. point/freezing point e) Initial boiling point No data available and boiling range f) Flammability (solid, The product is not flammable. gas) g) Upper/lower No data available flammability or explosive limits h) Flash point No data available i) Autoignition No data available temperature 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 6 - 8 at 100 g/l at 20 °C Viscosity, kinematic: No data available Viscosity, dynamic: No data available 800 g/l at 20 °C log Pow: -2,17 - Bioaccumulation is not expected., (Lit.)

< 0,0001 hPa at 20 °C 1,13 g/cm3 at 20 °C - OECD Test Guideline 109 No data available No data available

No data available

No data available No data available

# **SECTION 10: Stability and reactivity**

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature) . 10.3 Possibility of hazardous reactions Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines! Violent reactions possible with: Oxidizing agents alkalines 10.4 Conditions to avoid no information available 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 Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

## SECTION 12: Ecological information

12.1 Toxicity Toxicity to fish LC50 - Oryzias latipes (Orange-red killifish) - > 1.000 mg/l - 48 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia pulex (Water flea) - 11,94 mg/l - 48 h Remarks: (ECHA) Toxicity to bacteria static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

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12.2 Persistence and degradability Biodegradability aerobic - Exposure time Result: 1 % - Not readily biodegradable. (OECD Test Guideline 301C) 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessm This substance/mixture contains no com bioaccumulative and toxic (PBT), or ver levels of 0.1% or higher. 12.6 Endocrine disrupting properties Product:	ent nponents considered to be eith y persistent and very bioaccum	nulative (vPvB) at			
Assessment :	The substance/mixture does considered to have endocrine according to REACH Article 5 Delegated regulation (EU) 20 Regulation (EU) 2018/605 at	e disrupting properties 57(f) or Commission 17/2100 or Commission			
12.7 Other adverse effects Discharge into the environment must be avoided.					
SECTION 13: Disposal considerations 13.1 Waste treatment methods Product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.					
SECTION 14: Transport information					
14.1 UN number	A A A A A A A A A A A A A A A A A A A				
ADR/RID: 2811	IMDG: 2811	IATA: 2811			
14.2 UN proper shipping name	OUR OROLAND NO. (D				
ADR/RID: TOXIC S	OLID, ORGANIC, N.O.S. (Ben	zyltrimethylammonium chloride)			
		zyltrimethylammonium chloride)			
	OLID, ORGANIC, N.O.S. (Ben	zyltrimethylammonium chloride)			
14.3 Transport hazard class(es)					
ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1			
14.4 Packaging group					
ADR/RID: III	IMDG: III	IATA: III			
14.5 Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no			
14.6 Special precautions for user	INDG Marine polititant. no	IATA. IIU			
Tunnel restriction code : (E)					
Further information : No data available					
Further mormation . No data available					
SECTION 15: Regulatory information					
15.1 Safety, health and environmental regulations/legislation specific for the					
substance or mixture					
This material safety data sheet complies with the requirements of Regulation (EC) No.					
1907/2006.					
Other regulations					
Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or					
stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.					
	tion of young people at work.				
15.2 Chemical Safety Assessment					
For this product a chemical safety assessment was not carried out					

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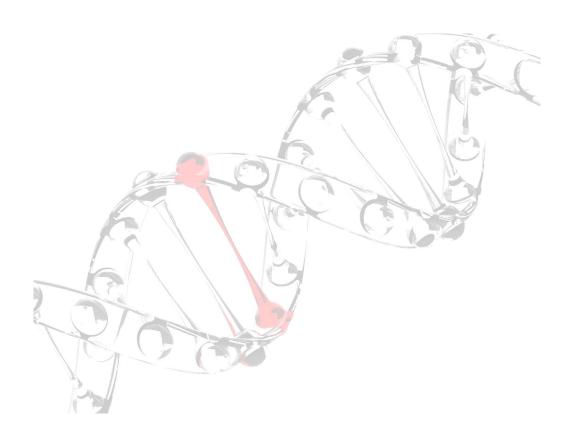
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### **SECTION 16: Other Information**

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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