# OTTO CHEMIE PVT LTD

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---ISO 9001: 2015----

#### **MATERIAL SAFETY DATA SHEET**

1.Identification 1.1GHS Product identifier Benzalkonium chloride, 98% Code B 1456

2.Hazard identification

2.1Classification of the substance or mixture

Acute toxicity - Oral, Category 4
Acute toxicity - Dermal, Category 4 Skin corrosion, Category 1B

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

2.2GHS label elements, including precautionary statements

Pictogram(s)







Signal word

Hazard statement(s)

Danger

H302 Harmful if swallowed

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage

H400 Very toxic to aquatic life

Precautionary statement(s)

Prevention

Response

P264 Wash ... thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/\u2026if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water/...

P312 Call a POISON CENTER/doctor/u2026if you feel unwell.

P321 Specific treatment (see ... on this label).

P362+P364 Take off contaminated clothing and wash it before

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower].

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing.
P310 Immediately call a POISON CENTER/doctor/u2026 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. P391 Collect spillage.

P405 Store locked up. Storage

P501 Dispose of contents/container to ... Disposal

2.3Other hazards which do not result in classification

3. Composition/information on ingredients

3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Benzalkonium chloride	Benzalkonium chloride	63449-41-2	none	100%

4 First-aid measures

4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Fresh air, rest. Fresh air, rest. Half-upright position. Refer for medical attention.

In case of skin contact

Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention .

In case of eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

If swallowed

Give one or two glasses of water to drink. Give one or two glasses of water to drink. Refer for medical attention .

4.2Most important symptoms/effects, acute and delayed

SYMPTOMS: Symptoms of exposure to this compound may include burning of the mouth, throat and abdomen on ingestion, circulatory and respiratory failure, cyanosis central nervous system depression and muscular weakness. ACUTE/CHRONIC HAZARDS: This compound is an irritant to the eyes and mucous membranes. It may cause respiratory failure and/or cardiovascular collapse. It also may cause renal failure.

4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

5. Fire-fighting measures

5.1Extinguishing media

Suitable extinguishing media

Fires involving this compound should be controlled with a dry chemical, carbon dioxide or Halon extinguisher.

5.2Specific hazards arising from the chemical

Flash point data for this chemical are not available, but it is probably combustible.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6 2 Environmental precautions

Personal protection: chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment. Sweep spilled substance into containers or absorb liquid in sand or inert absorbent and remove to safe place.

6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

Separated from food and feedstuffs. Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer

8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state liquid or powder no data available Colour no data available Odour Melting point/ freezing point 247\u00b0C(dec.)(lit.) Boiling point or initial boiling 147\u00b0C/8mmHg(lit.)

point and boiling range

Flammability Combustible. Gives off irritating or toxic fumes (or gases) in a fire.

Lower and upper explosion no data available

limit / flammability limit

Flash point 154\u00b0C(lit.) Auto-ignition temperature no data available Decomposition temperature no data available no data available рΗ Kinematic viscosity no data available

Solubility Soluble (>=10 mg/ml at 17.22\u00b0C)

Partition coefficient nno data available

octanol/water (log value)

Vapour pressure no data available Density and/or relative 0.989 g/cm3

density

Relative vapour density no data available Particle characteristics no data available

10. Stability and reactivity

10.1Reactivity no data available 10.2Chemical stability

Stable under recommended storage conditions.

10.3Possibility of hazardous reactions

BENZYLDIMETHYL(MIXED ALKYL)AMMONIUM CHLORIDE is incompatible with anionic detergents and nitrates. Quaternary ammonium salts often serve as catalysts in reactions. They are incompatible with many strong oxidizers and reducing agents, such as metal hydrides, alkali/active metals, and organometallics.

10.4Conditions to avoid

no data available

10.5Incompatible materials

no data available

10.6Hazardous decomposition products

no data available

### 11.Toxicological information

Acute toxicity

Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation

no data available

Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard

12. Ecological information

12.1Toxicity

no data available

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability



no data available
12.3Bioaccumulative potential
no data available
12.4Mobility in soil
no data available
12.5Other adverse effects
no data available

#### 13.Disposal considerations

13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# 14.Transport information

14.1UN Number

ADR/RID: UN3261 IMDG: UN3261 IATA: UN3261

14.2UN Proper Shipping Name

ADR/RID: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. IMDG: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. IATA: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

14.3Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

14.4Packing group, if applicable

ADR/RID: III IMDG: III IATA: III

14.5Environmental hazards
ADR/RID: yes IMDG: yes IATA: yes

14.6Special precautions for user

no data available

14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code no data available

## 15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Benzalkonium chloride	Benzalkonium chloride	63449-41-2	none
European Inventory of Ex	Listed.		
EC Inventory	Listed.		
United States Toxic Subst	Listed.		
China Catalog of Hazardo	Not Listed.		
New Zealand Inventory of	Listed.		
Philippines Inventory of C	Listed.		
Vietnam National Chemic	Listed.		
Chinese Chemical Invento	Listed.		

#### 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.