

BENZALKONIUM CHLORIDE 50%

SECTION 1: PRODUCT IDENTIFICATION

Product Name: BENZALKONIUM CHLORIDE 50%

Product Code: 023

CAS#: 63449-41-2

Synonym: NA

Chemical Formula: Not available

Molecular Weight: Not available

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

BENZALKONIUM CHLORIDE 50%

Toxicological Data on Ingredients:

Acute toxicity, Oral (Category 4), H302

H312 Harmful in contact with skin

Skin corrosion (Sub-category 1B), H314

Serious eye damage (Category 1), H318

Short-term (acute) aquatic hazard (Category 1), H400

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Sub-category 1B), H314

Serious eye damage (Category 1), H318

Short-term (acute) aquatic hazard (Category 1), H400

Other hazards - This substance/mixture contains no components considered to be persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

SECTION 4: FIRST AID MEASURES

If inhaled: After inhalation: fresh air. Call in physician.

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. Immediately call in ophthalmologist. Remove contact lenses

If swallowed: After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: Water foam carbon dioxide (CO₂) dry powder

Special hazards arising from the substance or mixture: Nature of decomposition products not known Mixture with combustible ingredients Development of hazardous combustion gases or vapours possible in the event of fire

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



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions 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. Environmental precautions: Do not let product enter drains.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

SECTION 7: HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition.

Storage: Store in tightly closed

Storage class: Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

Specific end use(s): No other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU) tightly fitting safety goggles

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.

Respiratory protection: Required when vapours/aerosols 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.

Body Protection: Use protective clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form	: Liquid
Odour	: Not available
Taste	: Not available
Molecular Weight	: Not available
Colour	: Not available
pH	: Not available
Boiling Point	: Not available
Melting Point	: Not available
Critical Temperature	: Not available
Specific Density	: Not Available
Vapor Pressure	: Not Available
Vapor Density	: Not available
Volatility	: Not Available
Odor Threshold	: Not Available
Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Solubility	: at 20 °C soluble

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: This product is chemically stable under standard ambient conditions (room temperature)



Chemical stability: The product is chemically stable under room temperature

Instability Temperature: Not available

Conditions of Instability: Excess heat

Incompatibility with various substances: Strong oxidizing agents

Special Remarks on Reactivity: Not available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: Acute toxicity estimate Oral - 1.001 mg/kg

Skin corrosion/irritation: Causes skin burns.

Serious eye damage/eye irritation: Mixture causes serious eye damage. Risk of blindness

Respiratory or skin sensitization: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity - single exposure: Not available

Specific target organ toxicity - repeated exposure: Not available

Aspiration hazard: Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Not available

Persistence and degradability: Not available

Bio accumulative potential: Not available

Mobility in soil: Not available

Results of PBT and vPvB assessment: 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.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID: 3265

IMDG: 3265

IATA: 3265

UN proper shipping name

ADR/RID: Corrosive liquid, acidic, organic, n.o.s. (alkyl dimethylbenzyl ammonium chloride)

IMDG: Corrosive liquid, acidic, organic, n.o.s. (alkyl dimethylbenzyl ammonium chloride)

IATA: Corrosive liquid, acidic, organic, n.o.s. (alkyl dimethylbenzyl ammonium chloride)

Transport hazard class (es):

ADR/RID: 8

IMDG: 8

IATA: 8

Packaging group:

ADR/RID: II

IMDG: II

IATA: II

Environmental hazards:

ADR/RID: Yes

IMDG Marine pollutant: Yes

IATA: No

SECTION 15: OTHER REGULATORY INFORMATION

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

Chemical Safety Assessment: Not available

SECTION 16: OTHER INFORMATION

References:

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage

H400 Very toxic to aquatic life

Other Special Considerations: Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.