

## SAFETY DATA SHEET

### BENZALKONIUM CHLORIDE 80%

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

<b>1.1 Product identifier:</b>	
<b>CAS Number:</b>	8001-54-5
<b>EC number:</b>	264-151-6
<b>1.2 SYNONYMS:</b>	<ul style="list-style-type: none"> <li>• Alkyl dimethyl benzyl ammonium chloride</li> <li>• BAC</li> <li>• BZK</li> </ul>

#### SECTION 2: Hazards identification:

<b>2.1 Classification of the substance or mixture:</b>	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
<b>2.2 Label elements:</b>	<p>Labelling according to Regulation (EC) No 1272/2008</p> <p>Acute toxicity, oral (Category 4)</p> <p>Skin corrosion, (Category 1B)</p> <p>Serious eye damage, (Category 1)</p> <p>Short-term (acute) aquatic hazard, (Category 1)</p> <p>Long-term (chronic) aquatic hazard, (Category 1)</p>
<b>Hazard Pictograms:</b>	
<b>Signal Word:</b>	Danger
<b>Hazard statements:</b>	<p><b>H302:</b> Harmful if swallowed.</p> <p><b>H314:</b> Causes severe skin burns and eye damage.</p> <p><b>H410:</b> Very toxic to aquatic life with long lasting effects.</p>
<b>Precautionary Statements:</b>	<p><b>P273:</b> Avoid release to the environment.</p> <p><b>P280:</b> Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p><b>P301 + P312:</b> IF SWALLOWED: Call a POISON CENTER/ doctor if you feel</p>

	<p>unwell.</p> <p><b>P303 + P361 + P353:</b> IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p><b>P304 + P340 + P310:</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.</p> <p><b>P305 + P351 + P338:</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p><b>P405:</b> Store locked up.</p> <p><b>P501:</b> Dispose of contents/ container to an approved waste disposal plant.</p>
<b>2.3 Other hazards:</b>	
<b>Inhalation:</b>	can cause respiratory irritation, coughing, shortness of breath, and in severe cases, pulmonary edema or chemical pneumonitis.
<b>Ingestion:</b>	can cause burning of the mouth and throat, nausea, vomiting, abdominal pain, diarrhea, and in severe cases, low blood pressure, respiratory distress, or even fatal toxicity.
<b>Skin Contact:</b>	can cause irritation, redness, itching, and, with prolonged or repeated exposure, chemical burns or dermatitis.
<b>Eye contact:</b>	can cause mild irritation, redness, or watering, but it is generally not considered highly hazardous.
<b>Chronic Exposure:</b>	can lead to skin sensitization, persistent dermatitis, respiratory irritation, and potential effects on the eyes or mucous membranes

	with repeated or prolonged contact.
<b>Aggravation of pre-existing conditions:</b>	can aggravate pre-existing respiratory conditions (like asthma or chronic bronchitis), skin disorders (such as eczema), and eye conditions, potentially worsening symptoms upon contact or inhalation.

### SECTION 3: Composition/information on ingredients

<b>3.1 Chemical characterisation:</b>	Substances
<b>CAS No:</b>	Description: 8001-54-5 BENZALKONIUM CHLORIDE 80%
<b>Identification number(s):</b>	EC number: 264-151-6

### SECTION 4: First aid measures

<b>4.1 Description of first aid measures</b>	
<b>General information:</b>	
<b>After inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>After skin contact:</b>	Remove contaminated clothing immediately. Wash with plenty of water. Consult a physician.
<b>After eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
<b>After swallowing:</b>	Rinse mouth with water. Immediately after ingestion. Do not induce vomiting. Consult a physician.
<b>4.2 Most important symptoms and effects, both acute and delayed:</b>	Acute and delayed exposure can cause skin and eye irritation, respiratory distress, nausea, vomiting, and, in severe cases, chemical burns or systemic toxicity, with symptoms potentially

	appearing immediately or hours after contact.
<b>4.3 Indication of any immediate medical attention and special treatment needed:</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

<b>5.1 Extinguishing media:</b>	Water, carbon dioxide dry powder.
<b>5.2 Special hazards arising from the substance or mixture:</b>	Carbon oxides.
<b>5.3 Advice for firefighters:</b>	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
<b>5.4 further information:</b>	no data available

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
<b>6.2 Environmental precautions:</b>	Do not enter this chemical into drains.
<b>6.3 Methods and material for containment and cleaning up:</b>	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling:</b>	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
<b>Requirements to be met by storerooms and receptacles:</b>	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.
<b>7.3 Specific end uses:</b>	no data available

## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	
<b>Additional information about design of technical facilities:</b>	A system of local and general exhaust is recommended.
<b>8.2 Exposure controls</b>	
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment:</b>	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
<b>General protective and hygienic measures:</b>	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.

	<b>Respiratory protection:</b> Required.
<b>Protection of hands:</b>	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. Wash and dry hands.
	<b>Eye protection:</b> Required
<b>Protection of Body:</b>	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance: Form:</b>	Liquid
<b>Colour:</b>	Pale yellow to brown
<b>Odour:</b>	Mild, ammonium like
<b>pH-value:</b>	6
<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	100°C
<b>Flammability (solid, gaseous):</b>	Not Flammable
<b>Ignition temperature:</b>	150°C
<b>Decomposition temperature:</b>	150°C
<b>Self-igniting:</b>	None
<b>Flash point:</b>	Not applicable
<b>Danger of explosion:</b>	None
<b>Explosion limits: Lower:</b>	Not applicable
<b>Explosion limits: Upper:</b>	Not applicable
<b>Vapour pressure:</b>	Not determined
<b>Density at 20 °C:</b>	1.01 g/cm <sup>3</sup>
<b>Relative density:</b>	1.01
<b>Vapour density:</b>	Not determined
<b>Evaporation rate:</b>	Not determined
<b>Solubility in / Miscibility with-water at 20 °C:</b>	Highly Soluble

<b>Partition coefficient:(n-octanol/water)</b>	1.5
<b>Viscosity:</b>	200 mPa.s at 20°C

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical stability</b>	This chemical is stable under storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	React violently with strong oxidizers to release toxic gases.
<b>10.4 Conditions to avoid</b>	Excessive heat, direct sunlight, flames.
<b>10.5 Incompatible materials</b>	Strong oxidizing agents, strong acids and bases.
<b>10.6 Hazardous decomposition products</b>	Carbon oxides, nitrogen oxides, hydrogen chloride gas.

## SECTION 11: Toxicological information

<b>11.1 Information on toxicological effects</b>	
<b>Acute Toxicity:</b>	<b>LD50</b> (Oral, Rat): no data available <b>LD50</b> (Dermal, Rabbit): no data available <b>LC50</b> (Inhalation Rat): no data available
<b>Skin corrosion/Irritation:</b>	Causes severe burns
<b>Serious eye damage/irritation:</b>	Causes serious eye damage
<b>Respiratory damage/irritation:</b>	No data available
<b>Ingestion:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Reproductive toxicity:</b>	No data available
<b>Specific target organ toxicity - single exposure:</b>	No data available
<b>Specific target organ toxicity - repeated exposure:</b>	No data available
<b>Aspiration hazard:</b>	No data available
<b>Signs and Symptoms of Exposure:</b>	Refer section 2.3
<b>11.2 Additional toxicological information</b>	No data available
<b>Biodegradability:</b>	Readily biodegradable

## SECTION 12: Ecological information

<b>12.1 Toxicity Aquatic toxicity:</b>	LC50(fish): no data available EC50(daphnia): no data available ErC50(algae): no data available
<b>12.2 Persistence and degradability:</b>	Moderately biodegradable
<b>12.3 Bioaccumulative potential:</b>	Low bioaccumulative
<b>12.4 Mobility in soil:</b>	High mobility
<b>12.5 Other adverse effects:</b>	No data available

## SECTION 13: Disposal considerations

<b>13.1 Waste treatment methods</b>	
<b>Uncleaned packaging Recommendation:</b>	dispose of in accordance with local hazardous waste regulations
<b>Recommended cleansing agents:</b>	Water, mild detergents, isopropanol.

## SECTION 14: Transport information

<b>14.1 UN-Number · ADR, ADN, IMDG, IATA:</b>	3265
<b>14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:</b>	BENZALKONIUM CHLORIDE
<b>14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :</b>	8
<b>14.4 Packing group · ADR, IMDG, IATA:</b>	2
<b>14.5 Environmental hazards:</b>	Yes
<b>14.6 Special precautions for user:</b>	Handle responsibly.

## SECTION 15: Regulatory information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU</b>	Directive 2012/18/EU, under that this substance is classified in listed substances as environmental hazard.
<b>Named dangerous substances:</b>	This substance is not listed in the annex 1 to the directive.
<b>15.2 Chemical safety assessment:</b>	Chemical assessment has not been carried out.

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## **SECTION 16: Other information**

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage use or disposal of the product.

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