

Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	:	Benzalkonium Chloride
Manufacture's Name	:	Allied Chemicals SC
Address	:	Kebele - 9, Near to Adama Steel, Adama Expressway, Adama ,Oromia
Office	:	Allied Tower, In front of Yeabsira building, Wosen area, Backside of sunshine real estate villa, Addis Ababa, Ethiopia. Email: alliedcls@gmail.com
Telephone	:	011-6182354

2. COMPOSITION / INGREDIENTS

Average Molecular Weight	:	283.88	
Chemical Identity	:	CAS No.	Weight Range
WATER	:	7732-18-5	50%
N-Alkyldimethylbenzyl ammonium chloride	:	8001-54-5	50%

3. HAZARD IDENTIFICATION

Health Rating	:	Moderate
Flammability Rating	:	Slight
Reactivity Rating	:	Slight
Contact Rating	:	Slight
Storage	:	General

4. FIRST AID MEASURES

Eye	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.
Skin	:	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.
Inhalation	:	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the

		aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove from exposure, lie down. Call a physician immediately. If not breathing, give artificial respiration.
Ingestion	:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water. Call a physician immediately.

**In all of the above cases, get a doctor to check the affected person.*

5. FIRE HAZARD AND FIRE-FIGHTING MEASURES

Flash point	:	250°C
Means of extinction	:	Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Do not allow run-off from fire-fighting to enter drains or water courses.
Flammability	:	Flammable.
Personnel	:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.
Hazardous combustion product	:	Thermal decomposition can lead to release of irritating gases and vapors.

6. ACCIDENTAL RELEASE

Engineering Controls	:	Ventilation of workplace.
Leak-And-Spill Procedures	:	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
Method for containment and clean UP	:	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE MEASURES

Handling Containers	:	Use only under a chemical fume hood. Wear personal
---------------------	---	--

		protective equipment/face protection. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance.
Storage Conditions of Containers	:	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Metals

8. PERSONAL PROTECTION MEASURES

Skin	:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection	:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Eyes	:	Wear appropriate protective eyeglasses or chemical safety goggles.
Feet	:	Safety Shoes/Gum Boots.
Body	:	Aprons.
Hygiene precautions	:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid.
Appearances	:	Clear Colorless liquid
pH	:	7.5±1 in 10% aq.sol.
Odor	:	Not available
Decomposition temperature	:	>140°C
Specific gravity	:	0.980
Boiling point	:	>100°C
Melting point	:	Not available
Viscosity	:	130 mPa.s at 20 °C
Solubility in water.	:	Miscible

10. REACTIVITY DATA

Chemical Stability	:	Stable under with normal conditions.
Incompatibility with	:	Strong oxidizing agents, Strong acids, Strong bases,

other Substances		Metals.
Reactivity and under what conditions	:	None known, based on information available.
Hazardous Decomposition	:	Incompatible products. Excess heat. Thermal decomposition can lead to release of irritating gases and vapors
11. TOXICOLOGICAL PROPERTIES		
Toxicity	:	Not available
Skin contact	:	May cause severe skin irritation
Inhalation acute	:	May cause respiratory irritation. Excessive inhalation causes headache, dizziness, nausea and in coordination.
Skin absorption	:	None
Inhalation Chronic	:	None
Eye contact		May cause eye irritation. May cause corneal injury.
Ingestion	:	Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea, and diarrhoea.
Effect of Acute and Chronic Exposure to Material	:	Not Applicable.
Irritancy of material	:	Slight
Carcinogenicity, Reproductive Effects, Teratogenicity, Mutagenicity	:	BKC is not known to be a human or animal carcinogen.
12. ECOLOGICAL INFORMATION		
Not Applicable.		
13. WASTE DISPOSAL		
Leak-and-spill procedures	:	it can be collected, cleaned up and stored in closed containers.
Disposal	:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to

ensure complete and accurate classification.

14. TRANSPORT RECOMMENDATION

No special condition, as it is not a regulated product. However, one should observe the usual precautionary measures for transporting chemicals.

15. REGULATORY REQUIREMENTS

According to the data available, the product is not regulated product. However, one should observe prescribed Federal, State and Local measures while dealing with chemicals.

16. OTHER INFORMATION

The information presented here pertains only to the product when stored in a condition, as prescribed above. The information is given in good faith, but no warranty, express or implied, is made.