MATERIAL SAFETY DATA SHEET

BENZALKONIUM CHLORIDE

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name	**Dodecyl Dimethyl Benzyl Ammonium Chloride**
General Name	Benzalkonium Chloride
CAS No.	139-07-1
Chemical Formula	C21H38NCl
Supplier	Cosmo Chemistry India Pvt. Ltd.
Address	Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka, Varachha Main Road, Surat, Gujarat, India - 395006
Email	info@cosmochemistryindia.com
Mobile No.	+91 9797977958

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Components	**CAS No.**	**Concentration**
Active Content	139-07-1	≥80%

SECTION 3: HAZARDS IDENTIFICATION

Hazardous, corrosive, toxic to aquatic organisms.

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation: Get medical attention immediately. If not breathing, give artificial respiration.

Swallowed: Do not induce vomiting and seek medical help immediately.

SECTION 5: FIRE AND EXPLOSION DATA

Fire Fighting Media and Instructions: Use water spray, fog or foam. Do not use water jet.

Flash Point: 44°C

Flammable Limits: LOWER: 3.2% UPPER: 19%

Auto-Ignition Temperature: >390°C (977°F)

Notice: Use water or water spray to cool the vessel. In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full facepiece operated in the pressure demand.

Hazardous Decomposition Products: CO, NOx and HCl.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection / Environmental Protection: See Section 8. Do not flush to sewer.

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal container.

Large Spill: Use a large container to collect the material back or for disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothes. Do not breathe gas/fumes/vapor/spray. Keep away from heat. Keep container dry. Keep away from sources of ignition. The package must never be reused for other products unrelated to the industry.

Storage: Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection: Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Value
Physical State	Liquid
Appearance	Colorless or yellow transparent liquid
Odour	Slight smell of alcohol
Boiling Point	Not tested
Melting Point	Not tested
Flash Point	44°C
Flammability	Yes

Explosivity	Yes
Oxidability	Not tested
Vapour Pressure	<40 mmHg at 19°C
Specific Gravity (20/20°C)	0.95
Water Solubility	Miscible with water in any proportion
Oil Solubility	Not tested

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under ordinary conditions.

Materials to Avoid: Strong acids and strong oxidizers.

Hazardous Polymerization: No.

Decomposition Products: CO, NOx.

SECTION 11: TOXICOLOGICAL INFORMATION

No data available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Products of Biodegradation: Yes.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Method: Consult the local environmental protection department.

SECTION 14: TRANSPORT INFORMATION

Parameter	Value
UN No.	3265
Packing Group	II

SECTION 15: OTHER REGULATORY INFORMATION

Not tested.

SECTION 16: OTHER INFORMATION

References: Not available.

Other Special Considerations: Not available.

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