SL-DDBAC | Dodecyl Dimethyl Benzyl Ammonium Chloride

Product Description

SL-DDBAC is a kind of cationic surfactant, belonging to nonoxidizing biocide. It can efficiently withhold algae propagation and sludge reproduction. Benzalkonium Chloride also has dispersing and penetrating properties, can penetrate and remove sludge and algae, has advantages of low toxicity, no toxicity accumulation, soluble in water, convenient in use, unaffected by water hardness. Benzalkonium Chloride can be also used as anti-mildew agent, antistatic agent, emulsifying agent and amendment agent in woven and dyeing fields.

It is widely used as a disinfectant in the Hospital, Livestock and Personal Hygiene sectors. Dual biocidal and detergent properties ensure high efficacy against Bacteria, Algae and Fungi and enveloped Viruses at exceptionally low ppm concentrations. DDBAC/BKC also has dispersing and penetrating properties, with advantages of low toxicity, no toxicity accumulation, soluble in water, convenient in use, unaffected by water hardness. DDBAC/BKC can be also used as anti-mildew agent, antistatic agent, emulsifying agent and amendment agent in woven and dyeing fields.

CAS No. : 8001-54-5 or 63449-41-2, 139-07-1

Molecular weight : 340.0

Molecular Formula : C_{21}H_{38}NCl

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\[
\begin{array}{c}
\text{C}_{12} \text{H}_{25} \text{N} - \text{CH}_2 \text{CH}_2 \\
\text{CH}_3
\end{array} + \text{Cl}^-
\]
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Structural Formula :

Technical Indicators

Technical Indicators of SL-DDBAC

<table>
<thead>
<tr>
<th>Item</th>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless to yellowish transparent liquid</td>
</tr>
<tr>
<td>Active content %</td>
<td>48.0-52.0</td>
</tr>
<tr>
<td>Amine salt %</td>
<td>2.0 max</td>
</tr>
<tr>
<td>pH</td>
<td>6.0-8.0(as it)</td>
</tr>
<tr>
<td></td>
<td>6.0-8.0(1% water solution)</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Item</th>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil &amp; Gas</td>
<td>Pipeline corrosion inhibitor. Prevents formation of sulphurous gases. De-emulsifier/sludge breaker for enhanced oil extraction.</td>
</tr>
<tr>
<td>Manufacture of Detergent-Sanitisers</td>
<td>Benzalkonium chloride safely incorporates both Microbicidal &amp; Detergency Properties into Products for Soil Penetration &amp; Disinfection, which makes it ideal for Formulation of Hygiene Products for Personal Hygiene, Hospital, Livestock and Food &amp; Dairy use.</td>
</tr>
<tr>
<td>Pharmaceuticals &amp; Cosmetics</td>
<td>Safety Factor of Benzalkonium Chloride leads to use in Various Topical and Ocular Products as a Preservative and to optimise Emolliency and Substantivity</td>
</tr>
<tr>
<td>Food &amp; Beverage Industry</td>
<td>On account of its non-toxic, non-corrosive, non-tainting, non-staining characteristics, Benzalkonium Chloride is widely used in the Formulation of Cleaner-Sanitisers for:</td>
</tr>
<tr>
<td></td>
<td>Dairy Industry</td>
</tr>
<tr>
<td></td>
<td>Slaughter Houses</td>
</tr>
<tr>
<td></td>
<td>Breweries</td>
</tr>
<tr>
<td>Polymer &amp; Coatings</td>
<td>Benzalkonium Chloride is widely used as an Anti-Static, Emulsifier &amp; Preservative in the Coatings Industry (Paints, Wood Treatment, Electronics)</td>
</tr>
</tbody>
</table>

http://www.slooilfield.com

QUALITY, VALUE, RESPONSIBILITY

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.
### Chemical Industry
Benzalkonium Chloride has diverse applications in the Chemical Industry as Precipitant, Phase Transfer Catalyst, Emulsifier/De-Emulsifier, etc.

### Water Treatment
Benzalkonium Chloride is used in Water & Effluent Treatment Formulations and Algaecides for Swimming Pools

### Aquaculture
Benzalkonium Chloride reduces the requirement of harmful Antibiotics in Aquaculture through improved hygiene. Used for Water Treatment, General Site Disinfection, Fish Parasite Removal, Prevention of Infectious Disease in Fish & Shellfish.

### Timber Protection
Global environmental concern has led to increasing replacement of chlorinated biocides with safer, biodegradable Benzalkonium Chloride in Wood Protection. It displays excellent fungicidal and algaecidal properties, and is highly effective against other organisms in combination formulations.

### Pulp & Paper Industry
Benzalkonium Chloride is used as a General Microicide for Slime Control & Odour Management, and improves Paper Handling (Imparts Strength & Antistatic properties)

### Textile Industry
Benzalkonium Chloride solutions are used as Moth Repellents, Permanent Retarders in Dyeing of Acrylic Fibres with Cationic Dyestuffs.

### Leather Industry

### Horticulture & Household
Benzalkonium chloride is highly effective against Mould, Mildew, Moss, Fungi & Algae and is used for cleaning and preparation of all types of Surfaces: Greenhouses, Roofing, Paths, Wooden decking, Sheds, Masonry

### Usage
As nonoxidizing biocide, dosage of 50-100mg/L is preferred; as sludge remover, 200-300mg/L is preferred, adequate organosiloxyl antifoaming agent should be added for this purpose. This product can be used together with other fungicidal such as isothiazolinones, glutaraldehyde, dithionitrile methane for synergism, but cannot be used together with chlorophenols. If sewage is appeared after thrown of this product in circulating cool water, the sewage should be filtered or blown off in time to prevent their deposit in bottom of collecting tank after froth disappearance.

No blending with anion surfactant.

### Package and Storage
200L plastic drum, IBC(1000L), customers’ requirement. Storage for one year in shady room and dry place.

### Safety Precautions
A little smell of almond, no visible stimulation to skin. When contacted, wash with water.

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