MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Product code:** BE129  
**Product Name:** BENZETHONIUM CHLORIDE, USP  
**Chemical Name:** Ammonium, benzyldimethyl(2-(2-(p-(1,1,3,3-tetramethylbutyl)phenoxy)ethoxy)ethyl)-chloride  
**Synonyms:**
- N,N-Dimethyl-N[2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]benzenemethanaminium chloride;
- Benzylidimethyl[2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy];
- Benzenemethanaminium, N,N-dimethyl-N-[2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]-, chloride;
- Disobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride;
- p-tert-Octyphenoxyethoxyethyldimethylbenzylammonium chloride;
- Antiseptol;
- BZT;
- Diapp;
- Disilyn;
- Hymaine;
- Phemeride;
- Phemerol;
- Phemerol Chloride;
- Phemithyn;
- Polymine D;
- Quatrachlor;
- Solamin;
- Solamine

**Recommended use:** No information available.  
**CAS #:** 121-54-0  
**RTECS #:** BO7175000  
**Formula:** C27-H42-Cl-N-O2  
**Cl#:** Not available  
**Supplier:** Spectrum Chemicals and Laboratory Products, Inc.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000  
**Order Online At:** https://www.spectrumchemical.com  
**Emergency Telephone Number:** CHEMTREC: 1-800-424-9300

See Section 8.
2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
DANGER CORROSIVE!
The product causes burns of eyes, skin and mucous membranes
Harmful if swallowed

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
</table>

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:
Skin. Inhalation. Ingestion.

Acute Potential Health Effects:

Skin Contact:
Severe skin irritation. Causes skin burns.

Eye Contact:
Severe eye irritation. Causes eye burns.

Inhalation:
May cause irritation of respiratory tract.

Ingestion:
Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. May cause gastrointestinal (digestive) tract burns. Can burn mouth, throat, and stomach. May cause vomiting. May cause central nervous system effects.

Chronic Potential Health Effects:

<table>
<thead>
<tr>
<th>Component</th>
<th>Benzethonium Chloride 121-54-0 (100)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogen Status:</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Target Organs: Skin. Eyes. Central nervous system.

Mutagenic Effects: May affect genetic material

Teratogenic Effects: No information available

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

Product code: BE129
Product name: BENZETHONIUM CHLORIDE, USP
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzethonium Chloride</td>
<td>121-54-0</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**General Advice:**
Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

**Skin Contact:**
Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.

**Eye Contact:**
Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

**Inhalation:**
Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

**Ingestion:**
Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

**Notes to Physician:**
Treat symptomatically

5. FIRE-FIGHTING MEASURES

**Flammable Properties**

**Flashpoint (°C/°F):**
No information available.

**Flash Point Tested according to:**
Not available

**Lower Explosion Limit (%):**
No information available

**Upper Explosion Limit (%):**
No information available

**Autoignition Temperature (°C/°F):**
No information available

**Suitable Extinguishing Media:**
Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:**
No information available.

**Hazardous Combustion Products:**
Carbon oxides, Hydrogen chloride gas, nitrogen oxides

Product code: BE129
Product name: BENZETHONIUM CHLORIDE, USP
Specific hazards: May be combustible at high temperatures. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Methods: No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods for Cleaning Up: Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions: Use only in area provided with appropriate exhaust ventilation. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Storage


8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Product code: BE129
Product name: BENZETHONIUM CHLORIDE, USP
Personal Protective Equipment

Eye protection: Face-shield.

Skin and body protection: Chemical resistant protective suit. Gloves. boots.

Respiratory protection: Wear respirator with dust filter.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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Australia and Mexico

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<th>Mexico</th>
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9. PHYSICAL AND CHEMICAL PROPERTIES
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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
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<tr>
<td>Appearance</td>
<td>Crystalline powder. Powder.</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Taste</td>
<td>Bitter</td>
</tr>
<tr>
<td>Molecular/Formula weight</td>
<td>448.08</td>
</tr>
<tr>
<td>Flash point (°C):</td>
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</tr>
<tr>
<td>Lower Explosion Limit (%)</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper Explosion Limit (%)</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition Temperature (°C/°F):</td>
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</tr>
<tr>
<td>Melting point/range(°C/°F):</td>
<td>158-163 °C/316.4-325.4 °F</td>
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<tr>
<td>Boiling point/range(°C/°F):</td>
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<tr>
<td>pH</td>
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</tr>
<tr>
<td>Specific gravity</td>
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<tr>
<td>Bulk density</td>
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</tr>
<tr>
<td>Lower Explosion Limit (%)</td>
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<tr>
<td>Upper Explosion Limit (%)</td>
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<td>Decomposition temperature(°C/°F):</td>
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<tr>
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</tr>
<tr>
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<tr>
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<tr>
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<tr>
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<td>Soluble in Chloroform</td>
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<tr>
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<tr>
<td>Solubility in Acetone</td>
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</tr>
<tr>
<td>Solubility in alcohol</td>
<td>Soluble in alcohol</td>
</tr>
<tr>
<td>Solubility in Chloroform</td>
<td>Soluble in Chloroform</td>
</tr>
</tbody>
</table>

**10. STABILITY AND REACTIVITY**

Stability: Stable at normal conditions

Conditions to avoid: Heat. Avoid dust formation. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible materials.


Possibility of Hazardous Reactions: No information available

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

**11. TOXICOLOGICAL INFORMATION**

Acute Toxicity

Component Information

Product code: BE129

Product name: BENZETHONIUM CHLORIDE, USP
Benethonium Chloride - 121-54-0

LD50/oral/rat = 295 mg/kg Oral LD50 Rat
368 mg/kg
LD50/oral/mouse = 338 mg/kg
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LC50/inhalation/rat No information available
LC50/inhalation/mouse No information available
LD50/dermal/rabbit No information available
LD50/dermal/rat No information available
LD50/oral/mouse = 338 mg/kg
LD50/oral/rat = 368 mg/kg

Local Effects

Skin irritation: Corrosive. Severe skin irritation. Causes burns. Causes severe skin irritation and burns with itching, erythema, burning pain. It may also cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Eye irritation: Corrosive. Severe eye irritation. Causes burns. May cause corneal damage. Symptoms can include redness, pain, blurred vision, discoloration, loss of vision, eye damage such permanent corneal opacification, chemical conjunctivitis, ulceration.

Inhalation: May cause irritation of respiratory tract.

Ingestion: Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. May cause digestive (gastrointestinal) tract burns. May cause vomiting. May affect behavior/central nervous system (convulsions). May affect behavior/central nervous system (somnolence). May affect urinary system (kidneys). May affect respiration (respiratory depression).

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity Chronic exposure may cause dermatitis..

Carcinogenic effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA HCS - Carcinogens</th>
<th>ACGIH - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
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<tr>
<td>Benethonium Chloride</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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<td>Not listed</td>
</tr>
</tbody>
</table>

Mutagenic Effects: May affect genetic material

Reproductive Effects: No information available

Teratogenic Effects: No information available

Product code: BE129 Product name: BENZETHONIUM CHLORIDE, USP
Target Organs: Skin. Eyes. Central nervous system.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and the ecotoxicology of similar products

Ecotoxicity effects: Aquatic environment.

Aquatic toxicity:

_Benzethonium Chloride - 121-54-0_

Freshwater Fish Species Data:
- 1.6 mg/l LC50 96 h Pimephales promelas
- 1.4 mg/l LC50 96 h Lepomis macrochirus

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzethonium Chloride</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: UN3261
Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s. (benzethonium chloride)
Hazard Class: 8
Packing Group: III
Subsidiary Risk: Not applicable
Marine Pollutant: No data available
ERG No: 154
DOT RQ (lbs): No information available
Symbol(s): G

TDG (Canada)

UN-No: UN3261
Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.
Hazard Class: 8
Packing Group: III
Subsidiary Risk: No information available
Description: No information available

ADR

Product code: BE129  Product name: BENZETHONIUM CHLORIDE, USP
UN-No: UN3261
Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.
Hazard Class: 8
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN3261
Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.
Hazard Class: 8
Packing Group: III
Subsidiary Risk: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: UN3261
Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.
Hazard Class: 8
Packing Group: III
Subsidiary Risk: 8
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN3261
Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.
Hazard Class: 8
Packing Group: III
Subsidiary Risk: No information available
Description: No information available

IATA
UN-No: UN3261
Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.
Hazard Class: 8
Packing Group: III
Subsidiary Risk: No information available
ERG Code: 8L
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>Benzethonium Chloride</td>
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<td>Present</td>
<td>Present KE-11871</td>
<td>Present (9)-849 (9)-252 (3)-2782</td>
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<td>Present</td>
<td>Present 204-479-9</td>
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</tbody>
</table>

Product code: BE129
Product name: BENZETHONIUM CHLORIDE, USP
U.S. Regulations


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<tbody>
<tr>
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<td>Not Listed</td>
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</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minims</th>
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</thead>
<tbody>
<tr>
<td>Benzethonium Chloride</td>
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</table>

U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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</thead>
<tbody>
<tr>
<td>Benzethonium Chloride</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
E  Corrosive material
D1B  Toxic materials

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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</thead>
<tbody>
<tr>
<td>Benzethonium Chloride</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzethonium Chloride</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

R-phrase(s)
R34 - Causes burns.
R22 - Harmful if swallowed.

Product code: BE129
Product name: BENZETHONIUM CHLORIDE, USP
S -phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46 - If swallowed, seek medical advice immediately and show this container or label.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzethonium Chloride</td>
<td></td>
<td>No information</td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
C - Corrosive.
Xn - Harmful.

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

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Prepared by: Sonia Owen
Literature reference: No information available

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