



Section 1 – Company Information

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Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Benzethonium Chloride
CAS NUMBER 121-54-0
SYNONYM (Diisobutylphenoxyethoxyethyl) dimethylbenzyl ammonium chloride;
N,N-Dimethyl-N-[2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]
benzenemethanaminium chloride
FORMULA $C_{27}H_{42}ClNO_2$

PRODUCT	CAS NUMBER	% BY WEIGHT
Benzethonium Chloride	121-54-0	≥ 97.0%

Section 3 – Hazards Identification

Hazard Overview: Toxic if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life. Hygroscopic.

EC Hazard Classification
According to Regulation EC No. 1272/2008 (CLP Regulation, GHS)

Acute Toxicity, Oral 3. H301
Skin Corrosion, 1B. H314
Acute Aquatic Toxicity 1. H400

According to EC Directive 67/548/EEC/ (or Directive 1999/45/EC).

Xn, Harmful; R22.
C, Corrosive; R34.
N, Dangerous for the environment; RS0/53.

Pictograms: GHS05; GHS06; GHS09
Signal Word: DANGER!

Hazard Statements
H301: Toxic if swallowed.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.



Precautionary Statements

P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.

Other Hazards: None

Adverse Health Effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Ingestion: Harmful if swallowed. Causes burns.

Section 4 – First Aid Measures

General Considerations: This substances is corrosive, toxic to aquatic life, light sensitive and hygroscopic.

First Aid Measures

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Flash Point of Substance: Not available

Suitable Extinguisher: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific Hazards: Emits toxic and corrosive fumes of CO, CO₂, NO, HCl.

Protective Equipment for Firefighters: Wear NIOSH/ MSHA approved or equivalent self-contained breathing apparatus with full-face respirator and full protective clothing.



Section 6 – Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate NIOSH/MSHA approved respirator, chemical safety goggles, compatible chemical resistant gloves, and safety boots. Do not breathe mists or vapors. Safety shower, eye bath, and mechanical exhaust required.

Environmental Precautions: Absorb spill with inert material, then place in suitable container. Clean up spills immediately, observing precautions in the protective equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not get water inside containers.

Method and Material for Containment and Cleaning up Leaks and Spills: Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling & Storage

Precautions for Safe Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep from contact with moist air and steam.

Conditions for Safe Storage: Keep container closed when not in use. Store in a tightly closed, light-resistant containers. Store in controlled room temperature away from incompatible substances. Store protected from moisture.

Section 8 – Exposure Controls & Personal Protection

Exposure Limit Values

Exposure Limits: None listed.

Occupational Exposure Controls

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Individual Protection Measures

Respiratory Protection: Wear appropriate NIOSH/MSHA approved respirator suitable for vapors.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Wear chemical safety goggles and full-face shield.

Skin Protection: Wear appropriate protective gloves to prevent skin exposure.

Environmental Exposure Controls

Control Methods: Contain residues for disposal. Avoid release to the environment.



Section 9 – Physical & Chemical Properties

Chemical Formula: C₂₇H₄₂ClNO₂

Appearance: White crystals

Odor: Mild odor

Odor Threshold: No data available

pH (10% w/v Aqueous Solution): 6.0 - 8.0

Melting Point: 158 - 163°C

Flash Point: No data available

Evaporation Rate: No data available

Flammability: Not flammable

Explosive Properties: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Specific Gravity (Solid): No data available

Water Solubility: Soluble in water

Partition Coefficient (n-Octanol/Water): No data available

Auto-Ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Other Information: Soluble in alcohol and chloroform; Slightly soluble in ether.

Section 10 – Stability & Reactivity Data

Reactivity: Reacts with strong oxidizing agents.

Chemical Stability: Stable at normal temperatures and pressures. Hygroscopic.

Possibility of Hazardous Reactions: No hazardous polymerization.

Conditions to Avoid: Dust generation, moisture, and excess heat.

Incompatible Materials: Strong oxidizing materials

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide, Nitrogen oxides, Hydrogen chloride.

Section 11 – Toxicological Information

Information on Acute Toxicological Effects: LD50 (Oral, Rat): 295 mg/kg

Health Effects by Routes of Exposure

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin Contact: May be harmful if absorbed through skin. Causes skin burns.

Eye Contact: Causes eye burns.

Ingestion: Harmful if swallowed. Causes burns.

Long Terms Effects: May cause long-term adverse effects in the aquatic environment.



Section 12 – Ecological Information

Toxicity: Do not empty into drains. Non-biodegradable.

Persistence & Degradability: No data available

Bio-Accumulative Potential: No data available

Mobility: No data available

Section 13 – Disposal Consideration

Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14 – Transportation Data

UN Number: UN2923

Transport Hazard Classification (U.S. DOT), (IMDG), (IATA/ICAO), (RID/ADR):

Corrosive, Toxic

Proper Shipping Name: Corrosive Solid, Toxic, N.O.S. (Benzethonium chloride)

Class: 8 (6.1)

Packing Group: III

Marine Pollutant: No data available

Other Information: No data available

Section 15 – Regulatory Information

Substance giving Rise to Classification: Benzethonium chloride

CAS Number: 121-54-0

EC (EINECS) Number: 204-479-9

Other National Regulatory Information

US TSCA Listings: Benzethonium chloride is listed on the TSCA Inventory.

DOT Classification: UN2923, Corrosive, toxic.

OSHA, CERCLA SARA Title III: No data available

HMIS Rating

Health: 2

Flammability: 0

Reactivity: 0



Section 16 – Other Information

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

