

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY INFORMATION

PRODUCT NAME	Benzyl Chloride
SYNONYM	Alpha-chlorotoluene
FORMULA	(-C(CH ₂ Cl)=CHCH=CHCH=CH-)
CAS NUMBER	100-44-7

Supplier: Elchemy

Company Address: A-448, Pocket 2, Sector 8, Rohini, New Delhi, Pin Code: 110085, India

Company Web Site: www.elchemy.com

Emergency Phone Number: +919867099519 (24 Hrs)

Email Id: info@elchemy.com

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT NAME	CAS NUMBER	PURITY
Benzyl Chloride	100-44-7	100%

SECTION 3 - HAZARDS IDENTIFICATION

Potential Acute Health Effects:

- Very hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation.
- Hazardous in case of ingestion. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns.



+91 98670 99519
+1 (908) 663 8750
info@elchemy.com
www.elchemy.com



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- Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:

- Very hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation.
- Hazardous in case of ingestion.
- CARCINOGENIC EFFECTS: Classified A2 (Suspected for human.) by ACGIH.
- MUTAGENIC EFFECTS: Not available.
- TERATOGENIC EFFECTS: Not available.
- DEVELOPMENTAL TOXICITY: Not available.
- The substance is toxic to kidneys, lungs, the nervous system, liver, mucous membranes.
- Repeated or prolonged exposure to the substance can produce target organs damage.
- Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.
- Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.
- Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation.

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.



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Registered Name: **BizinBiz Technologies Private Limited**
Registered Address: 3/8 2nd Floor, Asaf Ali Road, Above Dabur
India Pvt. Ltd., New Delhi, India, 110002
CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**
IEC: AAJCB9425C

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability of the Product: Auto-Ignition Temperature: Flash Points: CLOSED CUP: Flammable Limits: LOWER:	Combustible. 525°C (977°F) 67.2°C (153°F). OPEN CUP: 74°C (165.2°F) (Cleveland). 1.1% UPPER: 14%
Products of Combustion: These Fire Hazards in Presence of heat. products are carbon oxides (CO, CO2), halogenated compounds. Various Substances: Flammable in presence of open flames and sparks, of	

Explosion Hazards in Presence of Various Substances:

- Risks of explosion of the product in presence of mechanical impact: Not available.
- Risks of explosion of the product in presence of static discharge: Not available.



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Fire Fighting Media and Instructions:

- SMALL FIRE: Use DRY chemical powder.
- LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Combustible. When heated to decomposition it emits toxic fumes.

Special Remarks on Explosion Hazards: Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

- Combustible material. Corrosive liquid.
- Keep away from heat. Keep away from sources of ignition.
- Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material.
- Do not get water inside container. Do not touch spilled material.
- Use water spray curtain to divert vapor drift.
- Prevent entry into sewers, basements or confined areas; dike if needed.
- Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

SECTION 7 - HANDLING AND STORAGE

Precautions:

- Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition.
- Ground all equipment containing material.
- Do not ingest. Do not breathe gas/fumes/vapor/spray.
- Never add water to this product.
- In case of insufficient ventilation, wear suitable respiratory equipment.



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- If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
 - Keep away from incompatibles such as oxidizing agents.

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

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

- Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Gloves.
- Boots.

Personal Protection in Case of a Large Spill:

- 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.

Exposure Limits:

- TWA: 1
- Consult local authorities for acceptable exposure limits.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state and appearance:** Liquid. (Liquid.)



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- **Odor:** Pungent.
- **Taste:** Not available.
- **Molecular Weight:** 126.59 g/mole
- **Color:** Colorless.
- **pH (1% soln/water):** Not applicable.
- **Boiling Point:** 179°C (354.2°F)
- **Melting Point:** -43°C (-45.4°F)
- **Critical Temperature:** Not available.
- **Specific Gravity:** 1.1 (Water = 1)
- **Vapor Pressure:** 0.1 kPa (@ 20°C)
- **Vapor Density:** 4.36 (Air = 1)
- **Volatility:** 100% (v/v).
- **Odor Threshold:** 0.041 ppm
- **Water/Oil Dist. Coeff.:** Not available.
- **Ionicity (in Water):** Not available.
- **Dispersion Properties:** See solubility in water, methanol, diethyl ether.
- **Solubility:** Partially soluble in methanol, diethyl ether. Insoluble in cold water, hot water.

SECTION 10 - STABILITY AND REACTIVITY DATA

- **Stability:** The product is stable.
- **Instability Temperature:** Not available.
- **Conditions of Instability:** Not available.
- **Incompatibility with various substances:** Reactive with oxidizing agents. Slightly reactive to reactive with metals.
- **Corrosivity:** Non-corrosive in presence of glass.
- **Special Remarks on Reactivity:** May decompose on exposure to moist air or water.
- **Special Remarks on Corrosivity:** Not available.
- **Polymerization:** Yes.

SECTION 11 - TOXICOLOGICAL INFORMATION

- **Routes of Entry:** Dermal contact. Eye contact. Inhalation. Ingestion.
- **Toxicity to Animals:**

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 1231 mg/kg [Rat].

Acute toxicity of the vapor (LC50): 150 1 hours [Rat].



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CARCINOGENIC EFFECTS

Classified A2 (Suspected for human.) by ACGIH.

Causes damage to the following organs: kidneys, lungs, the nervous system, liver, mucous membranes.

Other Toxic Effects on Humans:

- Very hazardous in case of skin contact (irritant, permeator), of inhalation.
- Hazardous in case of ingestion.

Special Remarks on Toxicity to Animals:

Not available.

Special Remarks on Chronic Effects on Humans:

Tumorigen. 0700 In vitro studies in mammal cells, has shown mutagenic action.

Special Remarks on other Toxic Effects on Humans:

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Not available.

BOD5 and COD:

Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.



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Toxicity of the Products of Biodegradation:

The products of degradation are as toxic as the original product.

Special Remarks on the Products of Biodegradation:

Not available.

SECTION 13 - DISPOSAL CONSIDERATION

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14 - TRANSPORTATION DATA

DOT Classification:

Class 8: Corrosive material

Identification:

Benzyl chloride UNNA: UN1738 PG: II

Special Provisions for Transport:

Not available.

SECTION 15 - REGULATORY INFORMATION

Federal and State Regulations:

- California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Benzyl chloride



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-
- California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Benzyl chloride
 - Pennsylvania RTK: Benzyl chloride
 - Massachusetts RTK: Benzyl chloride
 - TSCA 8(b) inventory: Benzyl chloride
 - CERCLA: Hazardous substances.: Benzyl chloride

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):

- CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200F).
- CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
- CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
- CLASS E: Corrosive liquid.

DSCL (EEC):

- R22- Harmful if swallowed.
- R26- Very toxic by inhalation.
- R38- Irritating to skin.
- R41- Risk of serious damage to eyes.
- R45- May cause cancer.

HMIS (U.S.A.):

- Health Hazard: 3
- Fire Hazard: 2
- Reactivity: 0
- Personal Protection:

National Fire Protection Association (U.S.A.):

- Health: 3



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- Flammability: 2
- Reactivity: 1
- Specific hazard:

Protective Equipment:

- Gloves.
- Full suit.
- Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
- Face shield.

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.

This is a computer-generated document hence does not need signature.



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