

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name :** BENZYL CHLORIDE

Synonyms : Chloro Methyl Benzene, Alpha-chlorotoluene

Uses : In the pharmaceutical, benzyl compound, dyes

Supplier : Sanghvi Organics P Ltd  
Plot No. 3516  
Panoli ( Gujarat)

Telephone Number : 02646-272276

### 2. HAZARDS IDENTIFICATION

Pictogram



Signal word	Danger
Hazard statement(s):	
H350	May Cause cancer.
H 302	Harmful if swallowed.
H331	Toxic if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements (s)	
P201	Obtain special instruction before use.
P280	Wear protective gloves & wear eye protection.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P302+352	If ON SKIN L Wash with plenty of soap & water.
P304+340	If INHALED : Remove victim to fresh air and keep at rest in a position comfortable for Breathing.
P305+P351+P338	If In EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If



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P308+310

P332+313

Present and easy to do. Continue rinsing.

IF exposed or concerned: Immediately call a POISON CENTER or doctor/physician.

If skin irritation occurs : Get medical advice.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>7</sub>H<sub>7</sub>Cl  
Molecular weight : 126.18g/mol

Components	CAS Number	Concentration	Risk Phrases
Benzyl Chloride	100-44-7	< = 100%	R20/22/26/38/41

### 4. FIRST AID MEASURES

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

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

If swallowed

DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE FIGHTING MEASURES

Hazards from combustion products

Combustible liquid

Precautions for fire fighters and special protective equipment.

On burning will emit toxic fumes, including those of oxides of carbon. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapor or products of combustion.

Suitable extinguishing media

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





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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precaution

Prevent further leakage or spillage if safe to do so. Do not let product enter drains, Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulation or absorb with an inert material (e.g., vermiculite, dry sand earth).

## 7. HANDLING AND STORAGE

Conditions for safe storage

Keep in a tightly closed container. Store in a cool, dry ventilated area away from sources of heat or ignition. Protect against physical damage. Store separately from reactive or combustible materials, and out of direct sunlight. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid), observe all warnings and precautions listed for the product.

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Avoid exposure obtain special instructions before use.

Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:**

Use in well ventilated areas. If inhalation risk exists. Use with local exhaust ventilation or while wearing organic vapour respirator. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Personal Protective Equipment:**

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.





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Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid
Colour	:	Colourless
Odour	:	Pungent
Odour Threshold	:	5.5 ppm
Solubility	:	insoluble in water Soluble in ethanol, chloroform
Specific Gravity	:	1.094
Relative Vapor density	:	4.36 ( Air=1)
Vapour Pressure(20°C)	:	1.6 (68F)
Flash Point (°C)	:	74°C
Autoignition Temperature	:	585°C
Solubility in water(g/l)	:	0.05% @ 20°C
Boiling point	:	179°C
Freezing Point	:	-39°C

## 10. STABILITY AND REACTIVITY

Chemical stability	:	Unstable, Inhibitors such as propylene oxide, sodium carbonate solution, lime Or Trimethylamine must be used to prevent polymerization.
Conditions to avoid	:	Avoid Heat, Flames, ignition sources and incompatibles.
Incompatible materials	:	Water, dimethyl sulfoxide, oxidizing material, steam. Corrodes all common Metals except lead and nickel
Hazardous decomposition	:	May produce carbon monoxide, carbon dioxide, hydrogen chloride and Phosgene when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion	:	Harmful if swallowed.
Eye contact	:	Causes eye burns.
Inhalation	:	May be fatal if inhaled. Causes respiratory tract irritation.
Skin contact	:	Harmful if absorbed through skin. Causes skin irritation.
Toxicological Data	:	Oral LD50 (rat) : 1231mg/kg Inhalation LD50 (rat):> 150ppm/2hours





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## 12. ECOLOGICAL INFORMATION

Ecotoxicity : Very toxic to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS

Disposal methods : Dispose of material offer surplus and non-recyclable solutions to a licensed Disposal company.

## 14. Transport information

Road and Rail Transport, Marine Transport & Air Transport.

Proper Shipping Name : Benzyl Chloride

Hazard Class : 6,1,8

UN/NA : UN 1738

Packing Group : II

## 15. REGULATORY INFORMATION

Hazard class : 6,1,8

Risk Phrase(s) : R20/22 : Harmful by inhalation and if swallowed.

R26 : Very toxic by inhalation

R38 : Irritating to skin

R41 : Risk of serious damage to eyes

R45 : May cause cancer.

Safety Phrase(S) : S23: Do not breathe vapor/mist/aerosol

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and Seek medical advice.

S37/39: Wear suitable gloves and eye/face protection

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S45: In case of accident or if you feel unwell, seek medical advice immediately.





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## 16 OTHER INFORMATION

### NFPA Hazard ID

Health Hazard : 3

Fire Hazard : 2

Instability Hazard : 1

Hazard rating : 0- Minimal; 1 – Slight; 2- Moderate ; 3 – Serious ;4 - Severe

This SDS summarises to our best knowledge , The Chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace.

