



CIN No : U24117GJ1994PTC023109

Tele-Fax : +91-22-22017595 / 7124

Email : ho@sopl.co.in

Website : www.sopl.co.in

SANGHVI ORGANICS PVT. LTD

Mfrs of ORGANIC CHEMICALS

Admn. Office : Plot No. 24, D. Dharmesh Mansion, Kalbadevi Road, Bhangwadi, Kalbadevi, Mumbai 400 002.

Regd. Off. & Factory : Plot No. 3516, Phase III, G. I. D. C. Panoli, Dist. BHARUCH, GUJRAT - 394 116, (INDIA)

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

SAF-T-DATA™ Ratings(provided here for your convenience)

Health Rating : 3 – Severe (poison)

Flammability Rating : 2 – Moderate

Reactivity Rating : 2 – Moderate

Contact Rating : 3 – Severe (Corrosive)

Potential 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. Inhalation of the spray 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 eyes is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening occasionally, blistering.

Chronic Exposure:

Mild leucopenia , liver function disturbance and kidney problems.



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Hazard statement(s):

H350	May Cause cancer.
H 302	Harmful if swallowed.
H331	Toxic if inhaled.
H315	Causes skin irritation.
H317	Mau 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 Present and easy to do. Continue rinsing.
P308+310	IF exposed or concerned: Immediately call a POSION CENTER or doctor/physician.
P332+313	If skin irritation occurs : Get medical advice.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	:	C7H7Cl
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.



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In case of eye contact

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

Ingestion

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

Fire : Flash point : 67°C (153F) CC

Auto ignition temperature : 627°C(1161F)

Flammable limits: Lower 1.1% , upper – 14%

Hazards from combustion products

Combustible liquid

Explosion :

Above flash point, vapor-air mixtures are explosive within flammable limits noted above.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure

Wear appropriate personal protective equipment, 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.

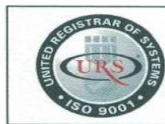
Environmental precaution

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



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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

Airbone Exposure Limits:

OSHA permissible Exposure Limit (PEL):

1ppm (TWA)

ACGIH Threshold limit value (TLV) :

1ppm (TWA), A3 : animal carcinogen

NIOSH immediately Dangerous to life or health (IDLH) : 10ppm

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.

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



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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, Di methylformamid 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

12. ECOLOGICAL INFORMATION

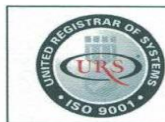
Ecotoxicity : Very toxic to aquatic life with long lasting effects.

Environmental Fate :

When released into the soil, this material may leach into ground water. When released into the air, this material may evaporate to a moderate extent when released into the air, this material is expected to be readily degraded by reaction with photo chemically produced hydroxyl radicals.

13. DISPOSAL CONSIDERATIONS

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



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14. Transport information

Road and Rail Transport(ADR,RID),

Transport (IMDG) by sea,

Transport by air(IATA- DGR)

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.

16 OTHER INFORMATION

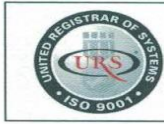
NFPA Hazard ID

Health Hazard : 3

Fire Hazard : 2

Instability Hazard : 1

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



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Label Hazard Warning:

DANGER! CORROSIVE, CAUSES BURNS TO ANY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED, CAUSES SEVERE IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM COMBUSTIBLE LIQUID AND VAPOR.

Label Precautions:

Do not get in eyes, on skin, or clothing.
Do not breathe mist.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Keep away from heat & flame.

Label First Aid :

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before use. If swallowed, Do NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

Sanghvi Organics P. Ltd provides the information contained here in goodfaith but makes no representative as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by properly trained person using this product. Sanghvi Organics P. Ltd will not be responsible for damages resulting from use of or reliance upon this information.