CHEMSYNTH CORPORATION

(Exporter of chemical Raw materials)
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Material safety data sheet

BENZYL CHLORIDE

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Benzyl chloride, stabilized

Synonyms alfa-Chlorotoluene

2. HAZARDS IDENTIFICATION

Target Organs Respiratory system, Eyes, Skin, Liver
Potential Health Effects
Company

B 802 Gundecha, LBS Marg, Kanjurmarg, Mumbai 400 078, India.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	CAS-No	Weight %
Benzyl chloride	100-44-7	>95
Propylene oxide	75-56-9	0.25

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.
Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 67°C / 152.6°F
Method No information available.
Autoignition Temperature 585°C / 1085°F

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media No information available.
Hazardous Combustion Products No information available.
Sensitivity to mechanical impact No information available.
Sensitivity to static discharge No information available.
Specific Hazards Arising from the Chemical
Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective
gear. Thermal decomposition can lead to release of irritating gases and vapors.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuatepersonnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Should not be released into the environment.
Methods for Containment and Clean Up
Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.
Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Handling Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Do not breathe vapors/dust. Do not ingest. Take precautionary measures against static discharges.
Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Corrosives area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers areclose to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment
Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid
Appearance Colorless - Amber
odor pungent
Odor Threshold No information available.
pH No information available.
Vapor Pressure 1.2 mbar @ 20 °C
Vapor Density 4.36 (Air = 1.0)
Viscosity 1.380 mPa.s @ 20°C
Boiling Point/Range 179°C / 354.2°F@ 760 mmHg
Melting Point/Range -39°C / -38.2°F
Decomposition temperature No information available.
Flash Point 67°C / 152.6°F
Evaporation Rate No information available.
Specific Gravity 1.100
Solubility Insoluble in water
log Pow No data available
Molecular Weight 126.59
Molecular Formula C7 H7 Cl

10. STABILITY AND REACTIVITY

Stability heat sensitive. Moisture sensitive.
Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.
Incompatible Materials Strong oxidizing agents, Bases, Metals
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrogen chloride Gas **Hazardous Polymerization** Hazardous polymerization does not occur.
Hazardous Reactions . None under normal processing..

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Component Information
Component LD50 Oral LD50 Dermal LC50 Inhalation
Benzyl chloride 340 mg/kg (Rat) Not listed 0.74 mg/L (Rat) 4 h
Propylene oxide 520 mg/kg (Rat) Not listed Not listed
Irritation Severe eye irritant Irritating to respiratory system and skin
Toxicologically Synergistic
Products
No information available.
Chronic Toxicity
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.
Sensitization No information available.
Mutagenic Effects No information available.
Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.
Developmental Effects Developmental effects have occurred in experimental animals.
Teratogenicity Teratogenic effects have occurred in experimental animals..
Other Adverse Effects Tumorigenic effects have been reported in experimental animals.. See actual entry in RTECS for complete information.
Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity
Do not empty into drains.
Persistence and Degradability Readily biodegradable.
Bioaccumulation/ Accumulation No information available
Mobility . **Component log Pow**
Benzyl chloride 2.3
Propylene oxide 0.08

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT
UN-No UN1738
Proper Shipping Name Benzyl chloride
Hazard Class 6.1
Packing Group II

14. TRANSPORT INFORMATION

TDG
UN-No UN1738
Proper Shipping Name BENZYL CHLORIDE
Hazard Class 6.1
Subsidiary Hazard Class 8
Packing Group II
IATA
UN-No 1738
Proper Shipping Name BENZYL CHLORIDE
Hazard Class 6.1
Subsidiary Hazard Class 8
Packing Group II

IMDG/IMO
UN-No 1738
Proper Shipping Name BENZYL CHLORIDE
Hazard Class 6.1
Subsidiary Hazard Class 8
Packing Group II

15. REGULATORY INFORMATION

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)
Component **Hazardous Substances RQs CERCLA EHS RQs**

16. OTHER INFORMATION

Prepared By Regulatory Affairs
Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.