

BENZYL CHLORIDE

SECTION - I IDEN	TIFICATION
Product Name	:Benzyl Chloride
Synonums	:Omega-Chlorotoluene; Chlorophenylmethane; Chloromethyl)Benzene; Alpha-Chlorotoluene; Tolyl chloride
Uses	:Widely used as an intermediate for manufacturing organic compounds including benzyl alcohol, benzyl cyanide and other benzyl derivative compounds.
REACH Registration No.	:
Submission No.	Mruchem
Organisation	[:] Near Saibaba Mandir,
Location	: Lehripura New Road,
Emergency Contact No.	· Vadodara, Gujarat - India - 390001 91 -8087147166

SECTION - II HAZARD IDENTIFICATION

2.1 Classification

Classification according to CLP/GHS (Directive 1272/2008/EC):

Hazard Class and	Hazard Statement	Hazard Statement Phrase (s)	
Category Code(s)	Code(s)		
Carc. 1B	H350	May cause cancer	
Acute Tox. 3	H331	Toxic if inhaled	
Acute Tox. 4	H302	Harmful if swallowe	ed
STOT RE 2	H373	May cause damage	to organs through prolonged or
STOT SE 3		repeated exposure	
Skin Irrit. 2	H335	May cause respirate	ory irritation
Eye Dam. 1	H315	Causes skin irritatio	n
	H318	Causes serious eye	damage
Classification according	to 67/548/EC:	-	
Classification	Risk phrases	Safety phrases	Indication(s) of danger
Carc. Cat. 2	R45	S53	
Т	R22	S45	
Xnl	R23		
Xi	R37/38		
	R41		
	R48/22		
2.2 Labelling			
Labelling according to C	LP/GHS:		
Pictogram Signal	Hazard Statement	Suppl. Hazard statement code(s)	
Word Code(s)	Code(s)		
GHS05	H350	May cause cancer	
GHS06	H331	Toxic if inhaled	
	H302	Harmful if swallowe	ed
	H373	May cause damage	to organs through prolonged or



		repeated exposure
	H335	May cause respiratory irritation
	H315	Causes skin irritation
	H318	Causes serious eye damage
		Pictogram(s)
	CORROSIVE	TOXIC
Labelliı	ng according to 67/548/EC:	
Labelliı Risk Ph		
		×
Risk Ph	rases:	
Risk Ph R45	rases: May cause cancer.	×

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION - III	COMPOSITION/INFORMATION ON INGREDIENTS				
Chemical Entity	CAS No.	Proportions (%)	EINECS	Symbol	Determination of the risk
Benzyl Chloride	100-44-7	99-100	202-853-6	Т	ΤΟΧΙϹ

SECTION - IV	FIRST AID MEASURES
Inhalation	:If exposure is limited normally no further aid required. If not breathing give artificial respiration. If breathing of victim is difficult administer oxygen for a maximum period of one hour.
Eye contact :Flu	sh eyes with water for 15 minutes. Hold eyelids open while washing. Do not put oils or ointment into eyes.
Skin Contact :Im	mediately remove contaminated clothing, including shoes. Wash affected area with plenty of soap and water for at least 20 minutes
Swollwed	:Drink large amounts of fluid. If victim is conscious give a glassful or more of lukewarm water with 1 tsp of salt/glass. If victim does not vomit after taking salt water, have him stick his finger down his throat to aid vomiting.After vomiting, give more water to further dilute concentration.





Extinguishing Media:Use dry chemical or Carbon Dioxide. Do not use water.Hazardsfrom:These products are carbon oxides (CO, CO2), halogenated compounds.Combustion ProductsCombustion ProductsCombustion Products

SpecialProtective :Fire fighters should wear a self contained breathing apparatus and fullPrecautionsand protective clothing along with protective equipment.Equipments

SECTION - VI ACCIDENTAL RELEASE MEASURES

Emergency Procedures :Absorb with an inert material and put the spilled material in an appropriate
waste disposal.Methods and materials:Damaged/cooled tanks must be emptied.for containment and
clean upTake up liquid spill into a non combustible material e.g.: sand, earth,
vermiculite.
Absorbed substance: shovel into open drums.
Neutralize spill with soda (sodium carbonate) or slaked lime.
Neutralized substance: wash down with an excess of water.

SECTION - VII	HANDLING AND STORAGE
Handling	of :- Observe very strict hygiene - avoid contact
Substance	- Do not discharge the waste into the drain
	- Avoid contact of substance with water
	 Remove contaminated clothing immediately
	- Clean contaminated clothing
Storage	: Keep container tightly closed
	- Limited time of storage
	- Store in a cool area
	- Store in a dry area
	- Keep away from: heat sources, oxidizing agents, metals, combustible materials,
	highly flammable materials
Shelf Life	: 365 days

		A DEDCONIAL DEOTECTION
SECTION - VIII	EXPOSURE CONTROL	/ PERSONAL PROTECTION

Personal protective equipment:

Respirator	:Gas mask with filter type A	
	- Gas mask with filter type B	
	 Dust/aerosol mask with filter type P2 	
Eyes	:Use chemical safety goggles and/or a full face shield where splashing is possible.	
	Maintain eye washfountain and quick-drench facilities in work area.	
Hands	:Protective gloves should be worn.	
Clothing	:Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.	
Protective	Change the contaminated clothing. Wash hands and face after working with this	
measures and	substance. Use cream barierowo-protective to the skin after working with	
personal hygiene:	substance.	
National Exposure Standards		

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):



1 ppm (TWA).

-ACGIH Threshold Limit Value (TLV):

1 ppm (TWA), A3: Animal carcinogen.

- NIOSH Immediately Dangerous to Life or Health (IDLH): 10 ppm

Engineering Controls

The control measures appropriate for a particular worksite depend on howthis material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside. Supply sufficient replacement air to make up for air removed. Have a safety shower/eye wash fountain readily available in the immediate work area.

SECTION - IX	PHYSICAL 8	& CHEMICAL PROPERTIES	
Appearance	Colourless liquid	Ignition Temperature	o : 1085 F
Formula Odor	C7H7C Irritating, unpleasant odour.	Specific Heat Value Particle Size	: Not Applicable : Not Applicable
Vapor Pressure	: 4.36	Volatile Organic Compounds (VOC) content	: No Data
Vapor Density	: 1.6 @ 20C (68F)	Evaporation Rate	: Not Applicable
Boiling Point	: 179 C	Viscosity (27 deg C)	: No Data
Melting Point Solubility in water	: -43 C InsolinIn	Percent Volatile Octanol/Water partition coefficient	: No Data : No Data
Specific Gravity (27 deg C)		Saturated Vapor Concentration	: Not Applicable
Flash Point	: 67 oC, 153 o F	Additional Characteristics	: Not Applicable
рН	: No Data	Flame Propagation/Burning Rate of Solid Materials	: Not Applicable
Flammability Limits (as percentage volume in air)	:	Properties of materials that may initiate or contribute to fire intensity	Not Applicable
Lower Explosion Limit	: Not Applicable	Potential for Dust Explosion	: Not applicable. Product is a liquid.
Upper Explosion Limit	: Not Applicable		

SECTION - X	STABILITY AND REACTIVITY
Stability	:Unstable. Inhibitors such as propylene oxide, sodium carbonate solution,lime, or trimethylamine must be used to prevent polymerization. When heated to decompose it emits toxic fumes of Cl
Conditions to avoid	: Heat, flames, ignition sources and incompatibles.



Materials to avoid

: Reacts with water or steam to produce toxic and corrosive fumes. Can react vigorously with oxidizing materials.

Hazardous decomposition products

: May produce carbon monoxide, carbon dioxide, hydrogen chloride and phosgene when heated to decomposition.

SECTION - XI TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 (rat, oral) : 1231 mg/kg

Further information:

Inhalation rat LD50: 150 ppm/2H. Investigated as a tumorigen, mutagen, and reproductive effector.

SECTION - XII ECOLOGICAL INFORMATION

Ecotoxicity: Not available

Toxicity to aquatic species:

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

Bio-Accumulation: The products of degradation are as toxic as the original product.

Mobility: If released into water the product will sink. The product is involatile and insoluble and will accumulate in the ground.

SECTION - XIII

DISPOSAL CONSIDERATIONS

Disposal

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Special Precautions for land fill or incineration

Disposal in accordance with local legal provisions.

SECTION - XIV TRANSPORT INFORMATION

ADR/RID:		
UN No.	: 1738	
Transportation name:	: Benzyl Chloride	
Chemical name:	: Benzyl Chloride	
ADR Class	: 6.1	
Packing group	: 11	
Domestic water transport (AND(R)		
UN No.	: 1738	
Transportation name:	: Benzyl Chloride	
Chemical name:	: Benzyl Chloride	
ADR Class	: 6.1	
Packing group	: 11	
Sea transport (IMDG):		



UN No.	: 1738
Transportation name:	: Benzyl Chloride
Chemical name:	: Benzyl Chloride
ADR Class	: 6.1
Packing group	: 11
Air transport (ICAO/IATA):	
UN No.	: 1738
Transportation name:	: Benzyl Chloride
Chemical name:	: Benzyl Chloride
ADR Class	: 6.1
Packing group	: 11

SECTION - XV REGULATORY INFORMATION

Enumerated in substance list Annex I of directive 67/548/EEC et sequens



TOXIC

R45 : May cause cancer R22 : Also harmful if swallowed R23 : Also toxic by inhalation

R37/38 : Irritating to respiratory system and skin R41 : Risk of serious damage to eyes

R48/22 : Also harmful: danger of serious damage to health by prolonged exposure if swallowed S53 : Avoid exposure - obtain special instructions before use

S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible) Professional users. Warning! Avoid exposure - obtain special instructions

SECTION - XVI OTHER INFORMATION

Full wording of R sentences and H sentences from Section 3.

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Other sources of information:

:

IUCLID Data Bank (European Commission - European Chemicals Bureau)

ESIS - European Chemical Substances Information System (European Chemicals Bureau)



Additional Information: Document Revision Date: 1st Jan,2024