

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name: 4- Chlorobenzyl chloride

Cat No.: AC150240000; AC150240010; AC150240050; AC150242500

CAS No.: 104-83-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Laboratory chemicals

Uses advised against: Food, drug, pesticide or biocidal product use.

1.3 Details of the supplier of the safety data sheet

Company: Krishna Solvechem Limited.

B/503, Sahayog, S. V. Road,

Kandivali (West), Mumbai – 400067. India.

Telephone: +91-22-6123 0222

Email: exports@kscl.co.in

1.4 Emergency telephone number

Emergency Phone : +91-8657457330

SECTION 2: Hazards identification

2.1 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	(Category 4)
Acute dermal toxicity	(Category 4)
Acute Inhalation Toxicity – dusts and mists	(Category 4)
Skin sensitization	(Category 1)

2.2 Label elements

Pictogram:



Signal word Warning

Hazard statement (s) May cause an allergic skin reaction



Harmful if swallowed, in contact with skin or if inhaled

Precautionary statement (s)

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Do not eat, drink or smoke when using this product
Contaminated work clothing should not be allowed
out of the workplace

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

IF ON SKIN (or hair):

If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse

Ingestion:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Disposal:

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects. Lachrymator (substance which increases the flow of tears)



SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
p-Chlorobenzyl chloride	104-83-6	>99

SECTION 4: First aid measures

4.1 Description of first aid measures

	If inhalation :	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
	In case of skin contact:	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
	In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
	Ingestion:	Do NOT induce vomiting. Call a physician immediately.
4.2	Most important symptoms	Causes burns by all exposure routes. May cause allergic skin

and effects: reaction4.3 Notes to Physician: Treat symptomatically

SECTION 5: Firefighting effects

5.1 Extinguishing media

Suitable extinguishing media carbon dioxide (CO2), dry chemical, alcohol-

resistant foam.

Unsuitable Extinguishing

Media::

No information available

5.2 Flash Point : 107 °C / 224.6 °F

Method: No information available



Autoignition Temperature: 650 °C / 1202 °F

Explosion Limits:

 Upper
 8.6%

 Lower
 2.0%

Sensitivity to Mechanical

Impact

No information available

Sensitivity to Static

Discharge

No information available

Specific Hazards Arising from

the Chemical:

Keep product and empty container away from heat and sources

of ignition.

Hazardous Combustion

Products:

Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen

Chloride gas

5.4 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.

NFPA:

Health	Flammability	Instability	Physical hazards
3	1	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Handle product only in closed system or provide appropriate exhaust ventilation.



7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives area. Incompatible Materials. Bases. Strong oxidizing agents. Alcohols. Amines. Finelypowdered metals. Metals.

SECTION 8: Exposure controls/personal protection

8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls

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 FN166

Skin protection 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 StandardEN 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.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice..

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties White solid a) Appearance b) Odour Odorless c) Odour Threshold No information available No information available d) pH 27 - 28 °C / 80.6 - 82.4 °F e) Melting point / freezing point f) Initial boiling point and 221 °C / 429.8 °F @ 760 mmHg



boiling range	
g) Flash point	107 °C / 224.6 °F
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	No information available
j) Upper/lower	Upper : 8.6%
flammability or	Lower : 2.0%
explosive limits	
k) Vapour pressure	No information available
I) Vapour density	Not applicable
m) Specific Gravity	No information available
n) Solubility	No information available
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	650 °C / 1202 °F
q) Decomposition temperature	No information available
r) Viscosity	Not applicable
s) Molecular formula	C7 H6 Cl2

	SECTION 10: Stability and Reactivity								
10.1	Reactive Hazard :	None known, based on information available							
10.2	Chemical stability:	Moisture sensitive							
10.3	Possibility of hazardous reactions :	None under normal processing.							
10.4	Conditions to avoid:	Excess heat. Exposure to moist air or water. Incompatible products.							
10.5	Incompatible materials:	Bases, Strong oxidizing agents, Alcohols, Amines, Finely powdered metals, Metals							
10.6	Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas							
10.7	Hazardous Polymerization	Hazardous polymerization does not occur							



SECTION 11: Toxicological information

11.1

Information on toxicological effects

Acute toxicity:

Product Information: Component Information

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation : No information available

Sensitization: May cause sensitization by skin contact

Carcinogenicity: The table below indicates whether each agency ha

Any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
p-Chlorobenzyl	104-83-	Not listed	Not	Not listed	Not listed	Not listed
chloride	6		listed			

Mutagenic Effects:	No information available.
Reproductive Effects:	No information available.
Developmental Effects:	No information available.
Teratogenicity:	No information available.
STOT - single exposure :	None known
STOT - repeated exposure:	None known
Aspiration hazard :	No information available.
Symptoms / effects,both acute and delayed:	No information available

Endocrine Disruptor Information : No information available

Other Adverse Effects: The toxicological properties have not been fully

investigated.



SECTION 12: Ecological information

12.1

Ecotoxicity:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
p-Chlorobenzyl chloride	Not listed	Not listed	EC50 = 0.51 mg/L 5 minEC50 = 0.60 mg/L 15 minEC50 = 0.64 mg/L 30 min	Not listed

12.2 Persistence and degradability: Insoluble in water May persist based on information available.

Bioaccumulation/ No information available Accumulation

12.3 Mobility: Is not likely mobile in the environment due its low water

solubility.

SECTION 13: Disposal considerations

13.1 Waste treatment 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.

SECTION 14: Transport information

14.1 UN number:

DOT: UN3427 TDG: UN3427 IATA: UN3427 IMDG: UN3427

14.2 UN proper shipping name

DOT: CHLOROBENZYL CHLORIDES, SOLID TDG: CHLOROBENZYL CHLORIDES, SOLID IMDG: CHLOROBENZYL CHLORIDES, SOLID IATA: CHLOROBENZYL CHLORIDES, SOLID 14.3 Transport hazard class(es) DOT: 6.1 TDG: 6.1 IMDG: 6.1 IATA: 6.1 DOT: III TDG: III IMDG: III 14.4 Packaging group: IATA: III

SECTION 15: Regulatory information

15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
p-Chlorobenzyl chloride	104-83- 6	X	ACTIVE	-

Legend:



TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories:

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
p-	104-	-	Х	203-242-7	Х	Х	Χ	Х	X	KE-05571
Chloroben	83-6									
zyl chloride										

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Not applicable

Health Administration

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65

chemicals.

15.2 U.S. State Right-to-Know Regulations:

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
p-Chlorobenzyl chloride	-	X	-	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant Y

DOT Severe Marine Pollutant N



U.S. Department of Homeland - This product does not contain the any DHS Chemicals. **Security**

Other International Regulations

Mexico – Grade No information available

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sarety, n	eaith and envi	ronmentai regulatio	ins/legislation sp	ecific for the sur	ostance or mixtur
Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
p-Chlorobenzyl chloride	104-83-6	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Safety Report Requirements	Rotterda m Convention (PIC)	Basel Convention (Hazardous Waste)
p-Chlorobenzyl chloride	104-83-6	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 16: Other information

16.1 Prepared By: Regulatory affairs

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Limited

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Revision Date: 24-Dec-2022 **Print Date:** 24-Dec-2022

Revision Summary: This document has been updated to comply with the US OSHA

HazCom 2012 Standard replacing the current legislation under29 C F R 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

16.2 Disclaimer:

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.