

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name: 2,4-Dichlorobenzoyl chloride

Cat No.: AC150220000; AC150220050; AC150221000; AC150225000

CAS No.: 89-75-8

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)

Skin Corrosion/Irritation	(Category 1 B)
Serious Eye Damage/Eye Irritation	(Category 1)

2.2 Label elements

Pictogram:



Signal word Danger

Hazard statement (s) Causes severe skin burns and eye damage



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

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

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion:

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage:

Store locked up

Disposal:

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Reacts violently with water. Contact with water liberates toxic gas



SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
Benzoyl chloride,2,4-dichloro-	89-75-8	98

	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 and effects :	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus shouldbe investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation				
4.3	Notes to Physician :	Treat symptomatically				

SECTION 5: Firefighting effects

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2). Dry chemical. Chemical foam.

Unsuitable Extinguishing

Media::

No information available

5.2 Flash Point: 137 °C / 278.6 °F

Method: No information available



Autoignition Temperature: 450 °C / 842 °F

Explosion Limits:

UpperNo data availableLowerNo data available

Sensitivity to Mechanical

Impact

anical No information available

Sensitivity to Static

Discharge

No information available

Specific Hazards Arising from

the Chemical:

Contact with water liberates toxic gas. Water reactive. Produce

flammable gases on contact with water.

Hazardous Combustion

Products:

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

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	W

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

See section 12 for additional Ecological Information

6.3 Methods and materials for containment and cleaning up

Wear self-contained breathing apparatus and protective suit. Sweep up and shovel into suitable containers for disposal. Do not expose spill to water.

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. Handle product only in closed system or provide appropriate exhaust ventilation. Do not allow contact with water because of violent reaction. Handle under argon.



7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep from any possible contact with water. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Water. Strong bases. Alcohols.

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 EN166.

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 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.

Hygiene Measures

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

	SECTION 9: Physical and chemical properties					
9.1	1 Information on basic physical and chemical properties					
	a) Appearance Clear low melting solid					
	b) Odour Odorless					
	c) Odour Threshold No information available					
	d) pH No information available					
e) Melting point / freezing 21 °C / 69.8 °F point						
	f) Initial boiling point and	150 °C / 302 °F @ 34 mmHg				



boiling range	
g) Flash point	137 °C / 278.6 °F
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	No information available
j) Upper/lower	No data available
flammability or	No data available
explosive limits	
k) Vapour pressure	No information available
I) Vapour density	Not applicable
m) Specific Gravity	1.490
n) Solubility	No information available
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	450 °C / 842 °F
q) Decomposition temperature	>300 °C.
r) Viscosity	Not applicable
s) Molecular formula	C7 H3 Cl3 O
t) Molecular Weight	209.46

 10.1	Reactive Hazard :	Yes			
10.2	0.2 Chemical stability: Stable under normal conditions. Moisture sensitive				
10.3	Possibility of hazardous reactions :	None under normal processing.			
10.4	Conditions to avoid :	Incompatible products. Exposure to moist air or water			
10.5	Incompatible materials:	Water, Strong bases, Alcohols			
10.6	Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2), Phosgene, Hydrogen chloride gas			



SECTION 11: Toxicological information

11.1

Information on toxicological effects

Acute toxicity:

Product Information: No acute toxicity information is available for this

product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzoyl chloride, 2,4-	LD50 = 4640 mg/kg	Not listed	Not listed
dichloro-	(Rat)		

Toxicologically Synergistic ProductsNo information available

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

Irritation : No information available

Sensitization: No information available

Carcinogenicity: The table below indicates whether each agency ha

Any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzoyl	89-75-8	Not listed	Not	Not listed	Not listed	Not listed
chloride,2,4-			listed			
dichloro-						

dichloro-					
Mutagenic Effec	ts:	No information available.			
Reproductive Eff	fects:	No information available.			
Developmental I	Effects:	No information available.			
Teratogenicity:		No information available.			
STOT - single exp	oosure :	None known			
STOT - repeated	exposure:	None known			
Aspiration hazar	d:	No information available.			
Symptoms / effe delayed:	ects,both acute and	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causessevere swelling, severe damage to the delicate tissue and danger of perforation			
Endocrine Disru	otor Information :	No information available			
Other Adverse E	ffects :	The toxicological properties have not been fully			

investigated.



	SECTION 12: Ecological information					
12.1 Ecoto	12.1 Ecotoxicity:					
12.2	Persistence and degradability:	Soluble in water Persistence is unlikely based on information Available.				
	Bioaccumulation/ Accumulation	No information available				
12.3	Mobility:	Will likely be mobile in the environment due to its 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: UN3261 TDG: UN3261 IATA: UN3261 IMDG: UN3261

14.2 UN proper shipping name

IMDG: Corrosive solid, acidic, organic, n. o. s.

IATA: CORROSIVE SOLID, ACIDIC, ORGANIC, N. O. S.

14.3 Transport hazard class(es) DOT: 8 TDG: 8 IMDG: 8 IATA: 8

14.4 Packaging group: DOT: II TDG: II IMDG: II IATA: II

SECTION 15: Regulatory information

15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
Benzoyl chloride, 2,4-dichloro-	89-75-8	Х	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
Benzoyl chloride, 2,4-dichloro-	89-75-8	Х	-	201-936-4	Х	Χ	Х	Х	Х	KE-10075

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:

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
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

Safety health and environmental regulations/legislation specific for the substance or mixture							
Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)		
Benzoyl chloride, 2,4-dichloro-	89-75-8	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	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)		
Benzoyl chloride, 2,4-dichloro-	89-75-8	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 FR 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.