

Material Safety Data Sheet

3,4 - DICHLORO BENZOYL CHLORIDE

Section 1 - Product and Company Information

Substance : 3,4 – Dichloro Benzoyl Chloride
 Trade Name : 3,4 – Dichloro Benzoyl Chloride, DCOC
 Chemical Family : Acid Chloride
 Company : Shiva Pharmachem Ltd.
 Plot No. 588,
 Village Luna – 391440
 Taluka Padra,
 District: Vadodara, Gujarat,
 India.
 Phone No. : +91-2662-221021 / 224360
 Fax No. : +91-2662-223314

Section 2 - Composition / Information on Ingredients

Product Name	CAS No.	EC No.	Mol. Formula	Mol. Weight.
3,4 – Dichloro Benzoyl Chloride`	3024-72-4	221-177-2	C ₇ H ₃ Cl ₃ O	209.46 g/mol

Section 3 – Hazards Identification

HAZARD DISCRIPTION

Highly Corrosive.

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIROMENT

Reacts violently with water. Causes burns

Section 4 – First Aid Measures

GENERAL INFORMATION

Immediately remove any clothing soiled by the product.

INHALATION

Supply fresh air, If required, provide artificial respiration. Keep patient warm
 Seek immediately medical advice.

EYE Contact

Rinse opened eye atleast for several Minutes under running water. Then consult a doctor.

SKIN Contact

Immediately wash with water and soap and rinse thoroughly.
 Seek immediate medical advice.

Material Safety Data Sheet**SWALLOWING**

Seek immediate medical advice.

Section 5 – Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Carbon Dioxide. Dry Chemical Powder, sand

Unsuitable: Do not use water

SPECIAL RISKS

Specific Hazard(S) : Reacts violently with water

Incase of fire the following can be released: Carbon dioxide, Carbon monoxide and Hydrogen Chloride.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut down all sources of ignition.

PERSON RELATED SAFETY PRECAUTION(S)

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

METHODS FOR CLEANING UP

Use neutralizing agent. Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation. Do Not flush with water or aqueous cleaning agents.

Section 7 - Handling and Storage

HANDLING

Handle under dry protective gas. Keep container tightly close. Store in Cool. Dry place in tightly closed container. Ensure good ventilation at work place. Keep ignition sources away.

STORAGE

Store away from moisture / Water. Store away from oxidizing agent. Store under dry inert gas. Protect from humidity and water. This product is moisture sensitive. Keep container tight sealed. Store in cool, dry condition in well sealed containers.

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Properly operating chemical fume hood designed for hazardous chemicals and having an average velocity of at least 100 feet per minute.

GENERAL PROTECTIVE AND HYGINE MEASURES

The usual precautionary measures for handling chemicals should be followed. Keep away from food stuff, Beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with eye and skin.

BREATHING EQUIPMENT

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Use suitable respirator when high concentration are present.

HAND PROTECTION EQUIPMENT

Wear impervious gloves. Check protective gloves prior to each use for their proper condition.

EYE PROTECTION EQUIPMENT

Use safety glasses, tightly sealed goggles and Full face protection.

BODY PROTECTION EQUIPMENT

Wear protective work clothing.

Section 9 - Physical and Chemical Properties

Appearance Color	: Pale Yellow
Form	: Low melting solid
Property	: Value at Temperature or Pressure
PH	: N/A
BP/BP Range	: 242° C @ 34mm Hg
MP/MP Range	: 30 °C
Flash Point	: 142° C (Method: Closed Up)
Flammability	: N/A
Autoignition Temp	: 280° C
Oxidizing Properties	: N/A
Explosive Properties	: N/A
Explosive Limits Lower / UPPER	: N/A
Vapor Pressure	: N/A
SG/Density	: N/A
Partition Coefficient	: N/A
Viscosity	: N/A
Vapor Density	: N/A
Saturated Vapor Conc	: N/A
Evaporation Rate	: N/A
Bulk Density	: N/A
Decomposition Temp.	: N/A
Solvent Content	: N/A
Water Content	: N/A
Surface Tension	: N/A
Conductivity	: N/A
Miscellaneous Data	: N/A
Solubility with water	: Reacts violently
Solubility other Solvents	: N/A

Section 10 - Stability and Reactivity

STABILITY:

Conditions to avoid: Water/Moisture, Oxidizing agents

Dangerous Reactions: Reacts violently with water.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon Monoxide, Carbon dioxide and hydrogen chloride

Section 11 - Toxicological Information

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SUBACUTE TO CHRONIC TOXICITY

Corrosive materials are acutely destructive to the respiratory tract, eyes, skin and digestive tract. Eye contact may result in permanent damage and complete vision loss. Inhalation may result in respiratory effects such as inflammation, Edema and chemical pneumonitis. May cause coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Ingestion may cause damage to mouth, throat and esophagus. May cause skin burns on irritation depending on the severity of the exposure.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Swallowing will lead to strong corrosive effect in mouth and throat and to the danger of perforation of esophagus and stomach

No Classification of data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA OR ACGIH.

ROUTE OF EXPOSURE

On the skin: Corrosive effect on skin and mucous membranes. Irritant to skin and mucous membranes.

On the Skin : Corrosive effect on skin and mucous membranes. Irritant to skin and mucous membrane.

On the Eye : Strong corrosive effect, Irritating effect.

On Swallowing : Swallowing will lead to strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Section 12 - Ecological Information

General Information: Do not allow material to be released to the environment without proper government permits.

Section 13 - Disposal Considerations

SUBSTANCE DISPOSAL

Consult state, local or national regulations to ensure proper disposal

Section 14 - Transport Information

DOT

Hazard Class	: 8
Identification No	: UN 3096
Packing Group	: II
Proper Shipping Name	: Corrosive liquid, Water reactive n.o.s
Technical Name	: 3,4 Dichlorobenzoyl Chloride
Label	: 8+4.3

ARD/RID

ARD/RID	: 8 (C4) corrosive substances
Danger	: 80
Un-Number	: 3261

Packaging group	: II
Description of goods	: 3261 Corrosive liquid, Acidic, Organic N.o.s (3,4 Dichloro Benzoyl Chloride)

IMDG

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IMDG Class	: 8
UN/ID Number	: 3261
Label	: 8
Packaging Group	: II
Proper Shipping Name	: Corrosive liquid, Acidic, organic n.o.s (3,4 Dichloro benzoyl Chloride)

ICAO-TI AND IATA-DGR

ICAO/IATA CLASS	: 8
Un/ID Number	: 3261
Label	: 8
Packaging Shipping Name	: Corrosive solid, Acidic, Organic n.o.s. (3,4 Dichlorobenzoyl Chloride)

Section 15 - Regulatory Information

CLASSIFICATION AND LABELLING ACCORDING TO U.S DIRECTIVES

HAZARD SYMBOL

C : Corrosive

RISK PHRASES

14 : Reacts violently with water
34 : Causes Burns

SAFETY PHRASES

8 : Keep container dry
20 : while using do not eat or drink
26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
30 : Never add water to this product.
36/37/39 : In case of accident or if you feel unwell, seek medical advice immediately.
60 : This material and its container must be disposed of as hazardous waste.

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Shiva Pharmachem Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Shiva Pharmachem Ltd has been advised of the possibility of such damages