



Material Safety Data Sheet

ISOPHTHALOYL CHLORIDE

Section 1 – Product and Company Information

Substance : Isophthaloyl Chloride
Trade Name : Isophthaloyl Chloride
Chemical Family : Acid Chloride
Company : Shiva Pharmachem Pvt. 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
ISOPHTHALOYL Chloride	99-63-8	202-774-7	C ₈ H ₄ Cl ₂ O ₂	203.02 g/mol

Section 3 – Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Causes burns. Irritating to respiratory system.

Section 4 – First Aid Measures

INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.

Section 5 – Fire Fighting Measures

CONDITIONS OF FLAMMABILITY

Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas.



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EXTINGUISHING MEDIA

Suitable: Carbon dioxide. Dry chemical powder.
Unsuitable: Do not use water.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

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

SPECIFIC METHOD(S) OF FIRE FIGHTING

Use water spray to cool fire-exposed containers.

Section 6 – Accidental Release Measures

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

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

SPECIAL REQUIREMENTS

Moisture sensitive.

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3



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(EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Section 9 - Physical and Chemical Properties

Appearance Color	: Colorless
Form	: Crystals
Property	: Value at Temperature or Pressure
PH	: N/A
BP/BP Range	: 276 °C at 760 mmHg
MP/MP Range	: 43 °C
Flash Point	: 180 °C Method: closed cup
Flammability	: N/A
Autoignition Temp	: N/A
Oxidizing Properties	: N/A
Explosive Properties	: N/A
Explosion Limits Lower	: 1.5 %
Upper	: 8.9 %
Vapor Pressure	: N/A
SG/Density	: 1.388 g/cm ³ at 20°C
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	: N/A

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions to Avoid: Moisture.

Materials to Avoid: Water, Alcohols, Oxidizing agents, Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen chloride gas, Phosgene gas.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur



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Section 11 - Toxicological Information

ACUTE TOXICITY

LD50

Oral

Rat

2200 mg/kg

LD50

Oral

Mouse

2221 mg/kg

Remarks: Behavioral: Food intake (animal). Behavioral: Change in motor activity (specific assay).

Behavioral: Somnolence (general depressed activity).

LD50

Oral

Rabbit

1175 mg/kg

Remarks: Behavioral: Food intake (animal). Behavioral: Change in motor activity (specific assay).

Behavioral: Somnolence (general depressed activity).

LD50

Skin

Rabbit

1410 mg/kg

IRRITATION DATA

Skin

Rabbit

200 mg

Remarks: Open irritation test Eyes

Rabbit

40 mg

Remarks: Mild irritation effect

SENSITIZATION

Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

SIGNS AND SYMPTOMS OF EXPOSURE

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact

Causes burns.



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Skin Absorption

Harmful if absorbed through skin.

Eye Contact

Causes burns. Lachrymator.

Inhalation

Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled

Ingestion

May be harmful if swallowed.

Section 12 - Ecological Information

Not Available

Section 13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT Regulations

UN No. : 3096
Hazard Class : 8
PG : II
Proper Shipping Name : Corrosive solid, acidic, organic, n.o.s.

RID/ADR

UN No. : 3261
Hazard Class : 8
PG : II
Proper Shipping Name : Corrosive solid, acidic, organic, n.o.s.

IMDG

UN No. : 3261
Hazard Class : 8
PG : II
Proper Shipping Name : Corrosive solid, acidic, organic, n.o.s.
Marine Pollutant : No
Severe Marine Pollutant : No
Technical Name : Required

IATA

UN No. : 3261
Hazard Class : 8
PG : II
Proper Shipping Name : Corrosive solid, acidic, organic, n.o.s.



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Inhalation Packing Group I : No
Technical Name : Required

Section 15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C

Corrosive

R-PHRASES: 21-34-37

Harmful in contact with skin. Causes burns. Irritating to respiratory system.

S-PHRASES: 26-36/37/39-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 1

ID-Number: 7152

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 Pvt. 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 Pvt. Ltd has been advised of the possibility of such damages.