



IHARANIKKEI CHEMICAL (THAILAND) CO., LTD.

บริษัท อีฮารานิกเคอ เคมีคัล (ประเทศไทย) จำกัด

Safety Data Sheet

1. Identification of the substance and of the supplier

Product Identifier :

Product name : Isophthaloyl Chloride

Other means of identification : IPC

Other indications : CAS No. : 99-63-8

Recommended use of the chemical and restrictions on use : Intermediates for Fiber

Manufacture's details :

Company : Iharanikkei Chemical (Thailand) Co., Ltd.

Address : 8/8 Phangmuang Chapoh 3-1 Road,
Huaypong, Muang Rayong, Rayong 21150 Thailand

Phone number : 033-017-451-3

Fax : 033-017-454

Emergency phone number : 033-017-541-3 Ext. 217, 218, 219

2. Hazards Identification

GHS classification of the substance or mixture :

Health hazards

Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	Category 4
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1

GHS label elements :



Signal word

Danger



Hazard statement

[Health hazards]

Harmful if swallowed

Harmful if in contact with skin

Causes severe skin burns and eye damage

Causes serious eye damage

Precautionary statement

[Prevention precautionary statements]

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

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

[Response precautionary statements]

Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Wash contaminated clothing before reuse.

[Storage precautionary statements]

Store locked up.

[Disposal precautionary statements]

Dispose of contents/container in accordance with local/regional/national/international regulation.

Other hazards which do not result in classification : No data available



3. Composition/Information on Ingredients

Substances

Chemical identity of the substance : Isophthaloyl Chloride

Synonyms : Isophthaloyl dichloride; Isophthalic chloride; Isophthalic acid dichloride;
1,3-Benzenedicarbonyl chloride; 1,3-Benzenedicarbonyl dichloride;
1,3-Benzenedicarboxylic acid

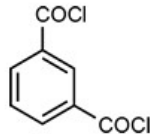
Molecular formula : C₈H₄Cl₂O₂

Composition : 99.5 %

Molecular weight : 203.02

CAS No.: 99-63-8

Structure :



Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance.

None

EINECS No.: 202-774-7

TSCA : Listed

4. First Aid Measures

If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

If on skin : Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

Immediately call a POISON CENTER or doctor/physician.

If in eyes : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

If swallowed : Rinse mouth. Do NOT induce vomiting.



Immediately call a POISON CENTER or doctor/physician.

Symptoms/effects, acute and delayed : cough, nausea, burning sensation, redness, pain

Expected symptoms/effects, acute and delayed, Data not available

Personal precautions : Wear proper personal protective equipment

Special information for Doctor : Data not available

5. Fire Fighting Measures

Suitable extinguishing media : Foam fire-extinguisher, Carbon dioxide, Dry chemical powder

Inappropriate extinguishing media : Water discharge, Water spray

Special hazards arising from the substance or mixture :

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Product combustible at elevated temperatures.

Heating, spark and flame may cause a fire.

Special protective equipment and precautions for fire-fighters :

Responders should wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective clothing.

6. Accidental Release Measure

Personal precautions, protective equipment and emergency procedures :

Immediately isolate the area at suitable distance in all directions.

Declare off-limits to non-participants around fire area.

Use proper personal protective equipment as indicated in Section 8 to prevent any contamination of skin, eyes and clothing.

Environmental precautions : Avoid release to the environment.

Method and materials for containment and cleaning up :

Sweep and collect the spilled solid in a container and storage until disposal.

Consult an expert on disposal regulations.

Shut off the source if possible to do so without undue hazard.



Preventions of secondary disaster:

Do not allow contact with Water. Promptly remove all ignition sources.

Ban smoking, sparking and flaming in the vicinity of the area.

7. Handling and Storage

Precautions for safe handling :

Technical measure	Refer to "8. Exposure controls / personal protection" and use proper personal protective equipment.
Local/general ventilation	Refer to "8. Exposure controls / personal protection" and use adequate local/general ventilation equipment.
Handling precautions	Store in a cool, dry, well-ventilated place away from incompatible materials. Keep containers and apparatus tightly closed. Keep away from eyes, skin or clothing; wash thoroughly after handling. Containers will retain product residue and vapors after being emptied. Always obey hazard warnings and handle empty containers as though they were full. Do not breathe dust/fume/gas/mist/vapours/spray.
Avoid contact	Refer to "10. Stability and reaction".

Conditions for safe storage, including any incompatibilities :

Technical measure	Store well-ventilated place.
Contact hazard substance	Refer to "10. Stability and reaction".
Appropriate safe storage conditions	Keep container tightly closed. Store in a cool, dark and well-ventilated place.
Safe container wrapping material	There are no wrapping and regulation of a container, but it's put in something which is not damaged in direct vent system.



8. Exposure Controls/Personal Protection

Control parameters Exposure limits :

Japan Society for Occupational Health

Not established

ACGIH

Not established

Appropriate engineering controls :

Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower.

Use mechanical ventilation to keep airborne and to reduce dust concentration.

Individual protection measures, such as

Personal protective equipment (PPE) :

Respiratory protection :

Wear proper respiratory mask.

Eye protection :

Wear proper eye protection (chemical goggles as a minimum)

Hand protection :

Wear appropriate protective gloves (rubber gloves with gauntlets).

Protective clothing :

Wear acid-resistant slicker suit with rubber apron, rubber with pants outside and rubber gloves with gauntlets.

Sanitary measures :

Wash hands thoroughly after handling.

Work / Hygienic Practices :

Do not eat, drink, or smoke during work

Wash hands after use

Remove contaminated clothing and protective equipment before entering eating areas

**9. Physical and Chemical Properties**

Physical state:	Solid
Color:	White
Odor:	Pungent smell
pH:	Data not available
Melting point/freezing point:	43.6 °C
Initial boiling point and boiling range:	276 °C
Flash point:	159 °C
Evaporation rate:	Data not available
Flammability (solid, gas):	Data not available
Upper/lower flammability or explosive limits:	Data not available
Vapor pressure:	4 Pa (25 °C)
Vapor density:	7.00
Relative density:	1.38 g/cm ³ (55 °C)
Solubility(ies); Water:	Not soluble, Hydrolysis
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature:	Data not available
Decomposition temperature:	Data not available
Viscosity:	Data not available
Lower limit of dust explosion:	Data not available
Minimum ignition energy:	Data not available
Volume resistivity (electro conductivity):	Data not available

10. Stability and Reactivity

Stability :	Stable under normal temperatures and pressures.
Possibility of hazardous reactions :	React with water and amine. Hazardous polymerization will not occur.
Conditions to avoid :	Incompatible materials, excessive heat, ignition sources, exposure to air and/or contamination of any kind.
Incompatible materials :	oxidizing agents, strong bases, water, alcohols, amines
Hazardous decomposition products :	It occurs in a hydrogen chloride, phosgene, carbon monoxide and carbon dioxide.

**11. Toxicological Information**

Acute toxicity;

Oral	Rabbit LD ₅₀ = 1,175 mg/kg	(Category 4)
Dermal	Rabbit LD ₅₀ = 1,410 mg/kg	(Category 4)
Inhalation (Gas) :	Not gases	
Inhalation (Vapor) :	Data is not available	(Classification not possible)
Inhalation (Dust) :	Data is not available	(Classification not possible)
Inhalation (Mist) :	Not Liquid	
Skin corrosion/irritation :	According to the SDS for Terephthaloyl chloride (CAS No.:100-20-9), classified as Category 1B. This product should be based on this classification.	
	Skin corrosion/irritation	(Category 1B)
Serious eye damage/irritation :	According to the SDS for Terephthaloyl chloride (CAS No.:100-20-9), classified as Category 1. This product should be based on this classification.	
	Serious eye damage/irritation	(Category 1)
Respiratory or skin sensitization :	Data is not available	(Classification not possible)
Germ cell mutagenicity :	Data is not available	(Classification not possible)
Carcinogenicity :	Data is not available	(Classification not possible)
Reproductive toxicity :	Data is not available	(Classification not possible)
STOT-single :	Data is not available	(Classification not possible)
STOT-repeated exposure :	Data is not available	(Classification not possible)
Aspiration hazard :	Data is not available	(Classification not possible)

12. Ecological Information

"Hazardous to the aquatic environment -Acute Toxicity-"

Data is not available (Classification not possible)

"Hazardous to the aquatic environment-Chronic Toxicity-"

Data is not available (Classification not possible)



13. Disposal Considerations

- Disposal methods :** Examine possibilities for re-utilization. Package product wastes. Close and label the waste receptacles and, likewise, any un-cleaned empty containers.
- Dispose of them at a suitable waste incineration plant in accordance with the official regulations.
- Where large quantities are concerned, consult the supplier.
- When un-cleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues.
- Contaminated packaging :** Dispose of contents/container in accordance with local/regional/national/international regulation. When dispose of a container, remove contents.

14. Transport Information

AIR (IATA)

- UN Number : 3261
- Proper shipping name : Corrosive Solid, Acidic, Organic, N.O.S.
- Transport hazard class (es) : 8
- Hazard label : Corrosive
- Packing group : II

SEA (IMO)

- UN Number : 3261
- Proper shipping name : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
- Transport hazard class(es) : 8
- Packing group : II
- Marine pollutant : No

LAND (ADR/RID)

- UN Number : 3261
- Proper shipping name : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
- Transport hazard class(es) : 8
- Packing group : II



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15. Regulatory Information

No Information

16. Other Information

Created : January 29, 2020

Reference : Safety Data Sheet of IHARANIKKEI CHEMICAL INDUSTRY CO., LTD. (Japan)

<https://chem.nlm.nih.gov/chemidplus/rn/99-63-8>

<https://hazmap.nlm.nih.gov/category-details?table=copytblagents&id=4296>

