

Material Safety Data Sheet

Version: 1.0
Creation Date: May 12, 2021
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Section 1: Identification

Product name: 1,3,5-Benzenetricarbonyl chloride, 99%

Other name: Trimesic Acid Trichloride, 99%

CAS#: 4422-95-1

Molecular Formula: C₉H₃Cl₃O₃

Molecular Weight: 265.48 g/mol

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Section 2: Hazards Identification

Hazard Class: CLASS 8

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



Hazard Statements:

H290 - Corrosive to metals
H302 - Harmful if swallowed
H314 - Skin corrosion
H318 - Serious eye damage/eye irritation

Precautionary statements:

P260 - Do not breathe dusts or mists

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340+P310 - If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard information (EU)

EUH014 - Reacts violently with water.

Other hazards: This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

Section 3: Composition/Information on Ingredients

Chemical name: 1,3,5-Benzenetricarbonyl chloride, 99%

Synonyms: TMC, Trimesic Acid Trichloride, 99%

CAS#: 4422-95-1

Molecular Formula: C₉H₃Cl₃O₃

Molecular Weight: 265.48 g/mol

Concentration: 99% min

Section 4: First-Aid Measures

In case of eyes contact: Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

In case of skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.

Inhalation: Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

Foam Water

Special hazards arising from the substance or mixture

Carbon oxides

Hydrogen chloride gas

Combustible.

Fire may cause evolution of:

- a. Hydrogen chloride gas
- b. Vapors are heavier than air and may spread along floors.
- c. May not get in touch with: Water
- d. Forms explosive mixtures with air on intense heating.
- e. Development of hazardous combustion gases or vapours possible in the event of fire.

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

Personal precautions: Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Section 7: Handling and Storage

Handling: Wear chemical safety goggles and rubber gloves. Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Use only in a well-ventilated area. Do not ingest or inhale. Avoid contact with skin and eyes. Wash contaminated clothing before reuse.

Storage: Recommend store in a tightly closed container and a cool, dry, well-ventilated area.

Section 8: Exposure Controls/personal Protection

Exposure and engineering Controls: Manufacturer prepared the safety data sheet in the workshop and use local exhaust ventilation. Regular inspections by staff to ensure work safety.

Personal Protective Equipment

General Information: Do not heat cast material in water bath since contact with moisture will release hydrogen chloride. Wear as appropriate to prevent all skin or eye contact.

Eyes: Wear chemical safety goggles to avoid eyes contact.

Skin: Wear rubber groves, pant and jack to prevent all skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure, and wash contaminated clothing before reuse.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved

full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9: Physical and Chemical Properties

Color: White.

Appearance: Crystalline

Odor: N/A

Odor threshold: N/A

pH: N/A

Density: 1.487 g/cm³

Melting point: 34.5 - 36.0 °C

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water : N/A

Flash point: 110 °C - closed cup

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Viscosity: N/A

Auto-ignition temperature: N/A

Partition coefficient - n-octanol/water: N/A

Section 10: Stability and Reactivity

Chemical Stability: sensitive to moisture.

Reactivity: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Possibility of hazardous reactions: Reacts violently with water.

Conditions to avoid: Strong heating. Moisture.

Incompatible materials: Strong oxidizing agents, Strong bases, Alcohols.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Section 12: Ecological Information

Toxicity: N/A

Persistence and degradability: N/A

Bioaccumulative potential: N/A

Mobility in soil: N/A

Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste, and consult local hazardous waste regulations to ensure complete and accurate classification. This product may be a RCRA Hazardous Waste upon disposal due to the reactivity characteristic.

Comply with Federal, State, and local regulations.

Section14: Transport Information

UN number

ADR/RID: 3261

IMDG: 3261

IATA: 3261

UN proper shipping name

ADR/RID: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

(Benzene-1,3,5-tricarbonyl trichloride)

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

(Benzene-1,3,5-tricarbonyl trichloride)

IATA: Corrosive solid, acidic, organic, n.o.s. (Benzene-1,3,5-tricarbonyl trichloride)

Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

Packaging group

ADR/RID: II

IMDG: II

IATA: II

Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special precautions for user

N/A

Section 15: Regulatory Information

Harmful if swallowed. Irritating to eyes and skin. Harmful to aquatic organisms; may cause long term adverse effects in the aquatic environment.

Seveso III: Directive 2012/18/EU of the European: OTHER HAZARDS Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Safety phrases: S61. Avoid release to the environment. Refer to special instructions/Safety data sheets.

Local regulations: It is user's responsibility to comply with the local laws and regulations.

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. It does not purport to be all-inclusive and shall be used only as a guide. Kaimosi BioChem Tech Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision Date: 15/Dec/2021

Version 4.2