



Material Safety Data Sheet

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1. Identification of the substance

Product Name: Tris(2-carboxyethyl)phosphine hydrochloride

Supplier: kinfon pharmachem co.,ltd

32F, Duhe Plaza, Lijiatuo Street, Banan Dist, Chongqing 400054 CHN

Website: <http://www.kfpharmachem.com> info@kfpharmachem.com

Emergency call: 86-(0)23-8650-0814

2. Composition/information on ingredients.

Product Name: Tris(2-carboxyethyl)phosphine hydrochloride

Molecular Formula C₉H₁₅O₆P.HCl

Molecular Weight 286.65

CAS Registry Number 51805-45-9

3. Hazards identification

IRRITANT

Irritating to skin, eyes, and respiratory system.

May have harmful effects if inhaled or swallowed.

Avoid prolonged exposure.

Do not breathe vapor.

Use caution when handling.

Exposure to any chemical should be limited.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

Material is for research and development purposes only.

4. First aid measures

EYE CONTACT: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes while keeping eyes open. COLD water may be used. Seek medical attention.

SKIN CONTACT: After contact with skin, wash with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Wash any contaminated clothing before reusing.

INHALATION: Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.

INGESTION: Do not induce vomiting. Give water to victim to drink. Seek medical attention.

5. Fire fighting measures

Extinguishing media: carbon dioxide, dry chemical powder, alcohol or polymer foam.

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Special fire-fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of product: emits toxic fumes under fire Conditions.

6. Accidental release measures

Personal precautions: Wear suitable personal protective equipment which performs satisfactorily and meets local/state/national standards.

Respiratory precaution: Wear approved mask/respirator

Hand precaution: Wear suitable gloves/gauntlets

Skin protection: Wear suitable protective clothing

Eye protection: Wear suitable eye protection

Methods for cleaning up: Mix with sand or similar inert absorbent material, sweep up and keep in a tightly closed container

for disposal. See section 12.

Environmental precautions: Do not allow material to enter drains or water courses.

7. Handling and storage

IRRITANT

AVOID PROLONGED USE

AVOID ALL DIRECT CONTACT WITH MATERIAL

Wash thoroughly after handling.

Do not breathe dust or vapor.

Have safety shower and eye wash available.

Do not get in eyes, on skin, on clothing.

Keep container tightly closed.

Store in a cool, dry, well-ventilated area.

Ensure adequate ventilation during use.

Use only in a chemical fume hood.

Avoid sources of ignition.

8. Exposure Controls / PPE

Avoid all direct contact with product.

Wear protective safety goggles.

Wear chemical-resistant gloves.

Wear protective clothing and boots.

Ensure ventilation during use.

After contact with skin, wash immediately.

9. Physical and chemical properties

APPEARANCE: solid

MF: C₉H₁₆O₆PCl

MW: 286.65

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BP: no data

MP: 117° C

DEN: no data

FP: no data

10. Stability and reactivity

INCOMPATIBILITIES: strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: may evolve carbon monoxide, carbon dioxide, phosphorus oxides, and hydrogen chloride.

11. Toxicological information

ACUTE EFFECTS:

Irritant

May be harmful by ingestion and inhalation.

Material is irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the toxicological properties of this product have not been fully determined.

12. Ecological information

No data.

13. Disposal consideration

Dissolve in 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 laws.

14. Transportation information

DOT

Classed non-hazardous for shipping.

IATA

Classed non-hazardous for shipping.

15. Regulatory information

No data

16. Other information

This MSDS is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use.