

Product Name: TCEP hydrochloride Revision Date: 01/17/2025



I. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Product Catalog Number:

CAS Number:

Company:



TCEP hydrochloride

B6055

51805-45-9

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II. HAZARDS IDENTIFICATION

Emergency Overview OSHA Hazards: Bio me me menour

Skin corrosion/irritation(Category 1A, B, C),H314 Skin corrosion/irritation(Category 2),H315 Serious eye damage/eye irritation(Category 1),H318 Serious eye damage/eye irritation(Category 2A),H319

Specific target organ toxicity, single exposure; Respiratory tract irritation(Category 3),H335

III. COMPOSITION/DATA ON COMPONENTS

Formula:

C9H16ClO6P

Molecular Weight :

286.65

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IV. FIRST AID MEASURES



V. FIRE FIGHTING MEASURES

Conditions of flammability:

Suitable extinguishing media:

Special protective equipment for

Hazardous combustion products:

If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration.

Flush with copious amounts of water; remove contaminated clothing and shoes; call a physician; Take victim to hospital immediately; call a physician.

Check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician.

If swallowed, wash out mouth with copious amounts of water; call a physician

Not flammable or combustible.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.

VI. ACCIDENTAL RELEASE MEASURES

Personal precautions:

firefighters:

Environmental precautions:

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas.

Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

VII. HANDLING AND STORAGE

Precautions for safe handling:

Conditions for safe storage:



Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: Store at -20°C

Keep in a dry place.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment as follows:

Respiratory protection:

Hand protection:

Eye protection:

Contains no substances with occupational exposure limit values.

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Use equipment for eye protection tested and

approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection:



Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures:

General industrial hygiene practice.

IX. PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties a) Appearance No data available No data available b) Odour No data available c) Odour Threshold No data available d) pH e) Melting point/freezing point No data available f) Initial boiling point and No data available boiling range g) Flash point No data available No data available h) Evaporation rate i) Flammability (solid, gas) No data available j) Upper/lower flammability or No data available explosive limits k) Vapour pressure No data available No data available I) Vapour density

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m) Relative density

- n) Water solubility
- o) Partition coefficient
- p) Auto-ignition temperature
- q) Decomposition temperature
- r) Viscosity
- s) Explosive properties
- t) Oxidizing properties

Other safety information

No data available

X. STABILITY AND REACTIVITY

Chemical stability:

Possibility of hazardous reactions:

Conditions to avoid:

Materials to avoid:

Carcinogenicity

IARC:

ACGIH:

- No data available
 - No data available

Stable under recommended storage conditions.

No data available.

No data available.

Strong acids, Strong bases.

XI. TOXICOLOGICAL INFORMATION

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels





greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

XII. ECOLOGICAL INFORMATION

General notes:

OSHA:

No data available.

XIII. DISPOSAL CONSIDERATION

General notes:

Dispose of in accordance with prevailing country, federal, state and local regulations

XIV. TRANSPORT INFORMATION

DOT (US):



IATA:



XV. REGULATIONS

This substance is considered to be non-hazardous for transport.

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: Environmentally hazardous substance, solid, n.o.s. Marine pollutant: Marine pollutant

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

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SARA 302 Components:

SARA 313 Components:

SARA 311/312 Hazards:

Massachusetts Right To Know Components:

Pennsylvania Right To Know Components:

New Jersey Right To Know Components:

California Prop. 65 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Acute Health Hazard.

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the New Jersey Right to Know Act.

No components are subject to the New Jersey Right to Know Act.

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

XVI. OTHER INFORMATION

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