SIGMA-ALDRICH

Material Safety Data Sheet

Concentration [%]

Bevision Date 07/13/2007 Print Date 12/15/2008

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Trizma™ hydrochloride

Product Number

: Sigma

Brand

Company

Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone

+1 800-325-5832 +1 800-325-5052 : (314) 776-6555

Emergency Phone #

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

TRIS hydrochloride

Tris(hydroxymethyl)aminomethane hydrochloride

Formula

Molecular Weight

C4H11NO3·CIH 157.60 g/mol

CAS-No.	EC-No.	Index-No.
2-Aming-2-(hydroxymethyl)propane-1.3-diol hydrochloride		

loride

214-684-5 1185-53-1

3. HAZARDS IDENTIFICATION

Emergency Overview OSHA Hazards

Irritant

HMIS Classification

Health Hazard: 2 Flammability: 0 Physical hazards: 0

NFPA Rating

Health Hazard: 2

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

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Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eves Ingestion May cause eve irritation.

May be harmful if swallowed.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area,

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eve contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point

no data available

Ignition temperature no data available

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment, Avoid dust formation, Avoid breathing dust. Ensure adequate ventilation,

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

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

7. HANDLING AND STORAGE

Handling

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

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

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

hygroscopic

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form solid

Colour no data available

Safety data

pH no data available

Melting point 150 - 152 ℃ (302 - 306 ℉)

Boiling point no data available
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available

Water solubility n

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

Exposure to moisture.

Materials to avoid

Bases, Oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

no data available

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

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11, TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

no data available

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation Skin May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Ingestion May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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15. REGULATORY INFORMATION

OSHA Hazards

Irritant

TSCA Status

On TSCA Inventory

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

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

SARA 313 Components

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.

SARA 311/312 Hazards Acute Health Hazard

Massachusetts Right To Know Components

No Components Listed

Pennsylvania Right To Know Components

CAS-No

Revision Date

2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

1185-53-1

Revision Date

New Jersey Right To Know Components

CAS-No.

2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

1185-53-1

California Prop. 65 Components

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

16. OTHER INFORMATION

Further information

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