Material Safety Data Sheet

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Section 1 - Product and Company Information

Product Name Product Number Ethylenediaminetetraacetic acid tetrasodium salt dihydrate, minimum 99% titration

Sigma Chemical

Company Address

Brand

Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country Technical Phone:

800-325-5832

800-325-5052

SAINT LOUIS, MO 63103 US

Emergency Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313

Annex I Index EC no Number

ETHYLENEDIAMINETETRAACETIC ACID

10378-23-1

200-573-9 Nο

TETRASODIUM SALT DIHYDRATE

Formula Synonyms C10H12N2Na4O8-2H2O

Section 3 - Hazards Identification

Emergency Overview

Irritant

Irritating to eyes, respiratory system and skin.

HMIS Rating

Health: 2

Flammability: 0

Reactivity: 0

NFPA Rating

Flammability: 0 Health: 2

Reactivity 0

For additional information on toxicity, please refer to Section 11

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Autoignition Temp:

Extinguishing Media

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe dust Avoid contact with eyes, skin, and clothing Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

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

Hand

Compatible chemical-resistant gloves

Chemical safety goggles.

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Appearance

Section 9 - Physical/Chemical Properties

Physical State Color Solid White Molecular Weight 416.20 AMU N/A BP/BP Range N/A N/A MP/MP Range Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density N/A **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A Water Content 5 - 10 % Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A Partition Coefficient N/A Decomposition Temp. N/A Flash Point °F N/A Flash Point °C N/A **Explosion Limits** N/A N/A Flammability **Autoignition Temp** N/A Solubility Solvent: 0.1 g/ml H2O. Clear

N/A = not available

Section 10 - Stability and Reactivity

Stability

Stable

Stable

Materials to Avoid

Strong oxidizing agents, Strong acids

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides

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Form

Fine crystals

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eve Contact

Causes eye irritation.

Inhalation

Material is irritating to mucous membranes and upper respiratory tractMay be harmful if inhaled.

Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

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

RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afteumer and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

Proper Shipping Name: None

Non-Hazardous for Transport This substance is considered to be nonhazardous for transport.

Non-Hazardous for Air Transport Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xi

Indication of Danger

Irritant. Risk Statements

R: 36/37/38

Irritating to eyes, respiratory system and skin.

Safety Statements S: 26 36/37

In case of contact with eyes, rinse immediately with plenty of water and seek medical adviceWear suitable protective clothing and aloves.

US Classification and Label Text

Indication of Danger

Irritant.

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Risk Statements

Irritating to eyes, respiratory system and skin.

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In case of contact with eyes, rinse immediately with plenty of water and seek medical advice/Vear suitable protective clothing and

United States Regulatory Information

SARA Listed: No

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present stated our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigmaldrich Inc., shall not be held liable for any damage resulting from handling or fom contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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