

according to the Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 08/02/2012

Version 1.1

#### **SECTION 1. Identification**

#### Product identifier

Product number 108407

Product name Ethylendiamintetraacetic acid calcium disodium salt dihydrate

# Relevant identified uses of the substance or mixture and uses advised against

Identified uses Reagent for analysis

# Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | SDS Phone Support: +1-978-715-1335 | General Inquiries: +1-978-751-4321 | Monday to Friday, 9:00 AM to

4:00 PM Eastern Time (GMT-5)

e-mail: mm\_sds@merckgroup.com

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

### SECTION 2. Hazards identification

### **GHS Classification**

Serious eye damage, Category 1, H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **GHS-Labeling**

Hazard pictograms



Signal Word
Danger

Hazard Statements

H318 Causes serious eye damage.

Precautionary Statements
P280 Wear eye protection.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313 Get medical advice/ attention.

#### **OSHA Hazards**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Other hazards

None known.

#### SECTION 3. Composition/information on ingredients

Formula  $C_{10}H_{12}CaN_2Na_2O_8 * 2 H_2O (Hill)$ 

CAS-No. 6766-87-6 Molar mass 410.31 g/mol

#### Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

Ethylenediaminetetra-acetic acid calcium ( >= 90 % - <= 100 % )

62-33-9

### SECTION 4. First aid measures

# Description of first-aid measures

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Ingestion

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Never give anything by mouth to an unconscious person.

# Most important symptoms and effects, both acute and delayed

Nausea, Vomiting, Irritation and corrosion, Risk of serious damage to eyes.

# Indication of any immediate medical attention and special treatment needed

No information available.

# SECTION 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide (CO2), Foam, Dry powder

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### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# Special hazards arising from the substance or mixture

Combustible material

Risk of dust explosion.

Development of hazardous combustion gases or vapors possible in the event of fire.

Fire may cause evolution of:

nitrogen oxides

#### Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

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, protective equipment and emergency procedures

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

Advice for emergency responders: Protective equipment see section 8.

#### **Environmental precautions**

Do not empty into drains.

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

# SECTION 7. Handling and storage

# Precautions for safe handling

Observe label precautions.

# Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Storage temperature: no restrictions.

# SECTION 8. Exposure controls/personal protection

# Exposure limit(s)

Contains no substances with occupational exposure limit values.

### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

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#### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

# Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

# Eye/face protection

Tightly fitting safety goggles

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Recommended:

full contact:

Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min

splash contact:

Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min

# Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# SECTION 9. Physical and chemical properties

Physical state solid

Color white

Odor odorless

Odor Threshold not applicable

pH 6.5 - 8.0

at 200 g/l 68 °F ( 20 °C)

Melting point (decomposition)

Boiling point No information available.

Flash point No information available.

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Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure No information available.

Relative vapor density No information available.

Relative density No information available.

Water solubility 800 g/l

at 68 °F (20 °C)

Partition coefficient: n-

octanol/water

No information available.

Autoignition temperature No information available.

Decomposition temperature 658 °F ( 348 °C)

Viscosity, dynamic No information available.

Bulk density ca. 600 kg/m<sup>3</sup>

# SECTION 10. Stability and reactivity

# Reactivity

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.

# **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

# Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

#### Conditions to avoid

Strong heating (decomposition).

### Incompatible materials

no information available

# Hazardous decomposition products

in the event of fire: See section 5.

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# **SECTION 11. Toxicological information**

#### Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact, Ingestion

Acute oral toxicity

LD50 rat: 10,000 mg/kg (anhydrous substance) (RTECS)

Symptoms: Nausea, Vomiting

Eye irritation

Causes serious eye damage.

Genotoxicity in vitro

Ames test Result: negative

(anhydrous substance) (Lit.)

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

# Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

# Further information

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12. Ecological information**

# **Ecotoxicity**

No information available.

#### Persistence and degradability

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No information available.

#### Bioaccumulative potential

No information available.

### Mobility in soil

No information available.

#### Other adverse effects

Additional ecological information

Discharge into the environment must be avoided.

#### **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **SECTION 14. Transport information**

#### Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

# Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

# Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

# SECTION 15. Regulatory information

# **United States of America**

#### **OSHA Hazards**

Corrosive to eyes

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

#### SARA 311/312 Hazards

Acute Health Hazard

#### **US State Regulations**

#### Massachusetts Right To Know

Remarks

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

### Pennsylvania Right To Know

Ingredients

Ethylenediaminetetra-acetic acid calcium

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# water of crystallization

# New Jersey Right To Know

Ingredients

Ethylenediaminetetra-acetic acid calcium

water of crystallization

#### California Prop 65 Components

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

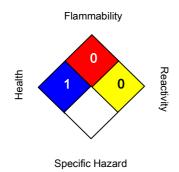
# Notification status

TSCA: On TSCA Inventory

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

#### SECTION 16. Other information

### National Fire Protection Association (U.S.A)



# Training advice

Provide adequate information, instruction and training for operators.

### Full text of H-Statements referred to under sections 2 and 3.

H318 Causes serious eye damage.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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