

EDTA (D12, 98%)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 24/01/2011 Revision date: 24/03/2021 Supersedes: 05/06/2020 Version: 5.0

DLM-414

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance Substance name : EDTA (D12, 98%)

 EC Index-No.
 : 607-429-00-8 (Unlabeled)

 EC-No.
 : 200-449-4 (Unlabeled)

CAS-No. : 203806-08-0 Product code : DLM-414

Formula : [CD2N(CD2COOH)2]2

Synonyms : Ethylenediaminetetraacetic acid / Edathamil / (Ethylenedinitrilo)tetraacetic acid /

Ethylenedinitrilotetraacetic acid

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2 H319

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36

Full text of R-phrases: see section 16

GHS-US classification

Eye Irrit. 2A H319

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation

Precautionary statements (CLP)

: P264 - Wash Both hands thoroughly after handling.
P280 - Wear protective clothing, protective gloves.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P264 - Wash Both hands thoroughly after handling.

P280 - Wear protective clothing, protective gloves.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
EDTA (D12, 98%)	(CAS-No.) 203806-08-0 (EC-No.) 200-449-4 (Unlabeled) (EC Index-No.) 607-429-00-8 (Unlabeled)	100	Xi; R36
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
EDTA (D12, 98%)	(CAS-No.) 203806-08-0 (EC-No.) 200-449-4 (Unlabeled) (EC Index-No.) 607-429-00-8 (Unlabeled)	100	Eye Irrit. 2, H319

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
EDTA (D12, 98%) (Main constituent)	(CAS-No.) 203806-08-0	100	Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

First-aid measures after skin contact : Wash off with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory tract irritation.

Symptoms/effects after skin contact : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : May be harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not available.

5.3. Advice for firefighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For containment : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe 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.

Hygiene measures : Handle in accordance with go

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

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

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: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus. Personal protective equipment









Materials for protective clothing : Wear suitable protective clothing and gloves. Hand protection Wear suitable protective clothing and gloves.

Eye protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection Choose body protection according to the amount and concentration of the dangerous

substance at the work place.

: When appropriate, use NIOSH/CEN approved respirator. Respiratory protection

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

: Solid Physical state Appearance : Powder.

Molecular mass 304.32 g/mol (Labeled)

Color : White. Odor : Odourless. Odor threshold : No data available

: 2.5 at 10 g/l at 23 °C (73 °F) pΗ

Relative evaporation rate (butyl acetate=1) : No data available Melting point : 250 °C (482 °F) - dec. : No data available Freezing point Boiling point : No data available Flash point : No data available

> 400 °C (> 752 °F) at 1,013 hPa (760 mmHg) Auto-ignition temperature

Decomposition temperature : No data available Flammability (solid, gas) : No data available : No data available Vapor pressure Relative vapor density at 20 °C No data available

1.46 g/cm3 at 20 °C (68 °F) Relative density Solubility : Water: 0.4 g/l at 20 °C (68 °F) Log Pow : 8.85 - 10.44 at 20 °C (68 °F)

Log Kow : No data available Viscosity, kinematic No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidizing properties No data available Explosion limits : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

Chemical stability

Stable if stored under recommended conditions.

Possibility of hazardous reactions

No additional information available

Conditions to avoid

No additional information available

Incompatible materials

Strong oxidizing agents.

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10.6. Hazardous decomposition products

carbon oxides. Nitrogen oxides.

SECTION 11: Toxicological information

Information on toxicological effects

: Not classified Acute toxicity

EDTA (D12, 98%) (203806-08-0)	
LD50 oral rat	4500 mg/kg male and female
Skin corrosion/irritation :	Skin - Rabbit Result: No skin irritation
	pH: 2.5 at 10 g/l at 23 °C (73 °F)

Serious eye damage/irritation : Eyes - Rabbit Result: Eye irritation pH: 2.5 at 10 g/l at 23 °C (73 °F)

: Maximisation Test - Rabbit Result: Does not cause skin sensitisation. Respiratory or skin sensitization

Germ cell mutagenicity : Not classified Carcinogenicity Not classified Reproductive toxicity : Not classified Specific target organ toxicity - single exposure : Not classified Specific target organ toxicity - repeated : Not classified exposure

: Not classified Aspiration hazard

Potential Adverse human health effects and

symptoms

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. Symptoms/effects after skin contact

Symptoms/effects after eye contact Causes serious eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

SECTION 12: Ecological information

Toxicity 12.1.

EDTA (D12, 98%) (203806-08-0)	
LC50 fish 1	41 mg/l static test LC50 - Lepomis machrochirus (Bluegill sunfish) - 96 h
EC50 Daphnia 1	625 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h

12.2. Persistence and degradability

No additional information available

12.3. **Bioaccumulative potential**

EDTA (D12, 98%) (203806-08-0)	
BCF fish 1	80 ug/l - Lepomis macrochirus - 28 d
Bioconcentration factor (BCF REACH)	1.8
Log Pow	8.85 - 10.44 at 20 °C (68 °F)

Mobility in soil 12.4.

No additional information available

Results of PBT and vPvB assessment

No additional information available

Other adverse effects

Other adverse effects May be harmful to aquatic organisms due to the shift of the pH. Avoid release to the environment.

SECTION 13: Disposal considerations

Waste materials should be disposed of under conditions which meet Federal, State, and local Regional legislation (waste) environmental control regulations.

Product/Packaging disposal recommendations Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. **UN** number

Not applicable

14.2. **UN proper shipping name**

Not applicable

Additional information 14.3.

Other information

: No supplementary information available.

Overland transport

Transport by sea

No additional information available

Air transport

No additional information available

Environmental hazards

Other information

: No supplementary information available.

14.5. Special precautions for user

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.6.

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

EDTA (D12, 98%) (203806-08-0)	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

15.2. International regulations

CANADA

EDTA (D12, 98%) (203806-08-0)

Not listed on the Canadian DSL (Domestic Substances List)

National regulations

No additional information available

15.3. US State regulations

EDTA (D12, 98%)(203806-08-0)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

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Eye Irrit. 2	Serious eye damage/eye irritation Category 2
H319	Causes serious eye irritation
R36	Irritating to eyes
Xi	Irritant

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

temporary incapacitation or residual injury.

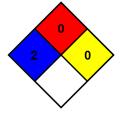
: 0 - Materials that will not burn under typical fire conditions, NFPA fire hazard

including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

CIL Substance SDS

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