

TCI AMERICA SAFETY DATA SHEET

Revision number: 1.1 **Revision date: 07/06/2018**

1. IDENTIFICATION

Product name: Ethylenediaminetetraacetic Acid

Product code: E0084

For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use.

Company: TCI America 9211 N. Harborgate Street

Portland, OR 97203 U.S.A. Telephone:

+1-800-423-8616 / +1-503-283-1681 Fax:

+1-888-520-1075 / +1-503-283-1987

e-mail:

sales-US@TCIchemicals.com www.TCIchemicals.com

Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-703-527-3887 (International) Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 2A] WHMIS 2015: Toxic to Reproduction [Category 2]

Specific Target Organ Toxicity (Repeated Exposure) [Category 1]

Signal word: Danger!

Hazard Statement(s): Causes serious eye irritation

Suspected of damaging fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure: Kidney

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Prevention] Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Do not breathe dust, fume, mist, vapors or spray. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective

clothing, face protection.

[Response] If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed or

concerned: Get medical advice or attention.

[Storage] Store locked up.

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 [Disposal]

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

[HNOC]

May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Substance/mixture:

Components: Ethylenediaminetetraacetic Acid

>98.0%(T) Percent: CAS RN: 60-00-4 Molecular Weight: 292.24 **Chemical Formula:** C10H16N2O8

Synonyms: (Ethylenedinitrilo)tetraacetic Acid, EDTA

4. FIRST-AID MEASURES

Description of first aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical Inhalation:

advice/attention.

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Skin contact:

Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get Eye contact:

medical advice/attention.

Get medical advice/attention.Rinse mouth. Ingestion:

Symptoms/effects:

Acute: Redness. Delayed: No data available

Indication of any immediate medical attention:

Not available.

Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Specific hazards arising from the

chemical:

Hazardous combustion products:

Closed containers may explode from heat of a fire.

These products include: Carbon oxides Nitrogen oxides

Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Environmental precautions:

Methods and materials for containment

and cleaning up:

Other specific hazards:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Prevent product from entering drains.

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

dispersion of dust. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.

Avoid all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators

approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder
Colour: White - Almost white
Odour: No data available
Odor threshold: No data available
Odour threshold: No data available

Melting point/freezing point: 240°C (464°F)
Boiling point/range: No data available

Decomposition temperature: 150°C (Starts to decarboxylate)

Relative density: No data available Kinematic viscosity: No data available

Log Pow: No data available

Evaporation rate(Butyl No data available

Acetate=1):

Vapour pressure:

Dynamic Viscosity:

Vapour density:

pH:

Flash point: No data available Autoignition temperature: No data available

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: No data available Upper: No data available

No data available

No data available.

No data available

No data available

Solubility(ies):

[Water] Insoluble (0.05g/100mL)

[Other solvents]

Soluble: Sodium hydroxide solution Insoluble: Many organic solvents

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported.

Incompatible materials: Oxidizing agents

Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

RTECS Number: AH4025000

Acute Toxicity:

orl-mus LD50:30 mg/kg ipr-rat LD50:397 mg/kg

ivn-mus LD50:28500 ug/kg

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

cyt-mus-ipr 50 mmol/L dnd-mus-lym 40500 umol/L

dni-rat-oth 600 umol/L

Carcinogenicity: No data available

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

orl-rat TDLo:7632 mg/kg (7-14D preg)

Target organ(s):

Causes damage to organs through prolonged or repeated exposure: Kidney

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: 48h LC50:163 mg/L (Oryzias latipes)

Crustacea: No data available
Algae: No data available

Persistence / degradability:

Bioaccumulative potential(BCF):

Mobility in soil

0 % (by BOD) , 0 % (by TOC) , 0 % (by UV-VIS) 2.7 - 12 (conc. 2 mg/L) , 27 - 123 (conc. 0.2 mg/L)

 Log Pow:
 -3.86

 Soil adsorption (Koc):
 313

 Henry's Law (PaM³/mol):
 5.9 x 10-11

13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers.

Disposal of container:Dispose of as unused product. Do not re-use empty containers. **Other considerations:**Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) Non-hazardous for transportation.

IATA Non-hazardous for transportation.

IMDG Non-hazardous for transportation.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed SARA 302: Not Listed

State Regulations

State Right-to-Know

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Listed
Listed
Not Listed

Other Information

NFPA Rating: HMIS Classification:

 Health:
 2
 Health:
 2

 Flammability:
 0
 Flammability:
 0

 Instability:
 0
 Physical:
 0

International Inventories

Canada: DSL On DSL **EC-No:** 200-449-4

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1.1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.