

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2022
Date Updated: December 31, 2022

SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION -----

Product Name EDTA, disodium salt, dihydrate
Product Code(s) EB0185
Recommended Use For Laboratory Research Use Only
 Not for Human or Animal Drug Use

Supplier Bio Basic Asia Pacific Pte Ltd.
Address 2 International Business Park Road
 Strategy #01-04, Singapore 609930

Telephone (+65) 6954 2519
 (+65) 6491 5938

Email sg@biobasic-asia.com

SECTION 2. ----- HAZARDS IDENTIFICATION -----

GHS Classification

Classification (REGULATION (EC) No 1272/2008)
 Acute toxicity, Inhalation (Category 4), H332
 Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Respiratory Tract,
 H373 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H332
 H373

Harmful if inhaled.
 May cause damage to organs (Respiratory Tract) through prolonged
 or repeated exposure if inhaled.

Precautionary statement(s)

Response
 P314

Get medical advice/ attention if you feel unwell.

Other hazards

None known.

SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Chemical Name	EC No.	CAS-No.	Weight %
EDTA disodium salt	205-358-3	6381-92-6	<100

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SECTION 4. ----- FIRST-AID MEASURES-----

Description of first-aid measures

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Immediately make victim drink water (two glasses at most). Consult a physician.

Most important symptoms and effects, both acute and delayed

We have no description of any symptoms of toxicity.

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5. ----- FIRE FIGHTING MEASURES-----

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of nitrogen oxides.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Suppress (knock down) gases/vapours/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

Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Environmental precautions

Do not let product enter 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.

Reference to other sections

For disposal see section 13.

SECTION 7. ----- HANDLING AND STORAGE-----

Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Observe label precautions. Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers. No aluminium, tin, or zinc containers. Storage conditions Tightly closed. Dry. Recommended storage temperature see product label.

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Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - -

Control parameters

Derived No Effect Level (DNEL)

Worker DNEL, acute	Local effects	Inhalation	3 mg/m ³
Worker DNEL, longterm	Local effects	Inhalation	1.5 mg/m ³
Consumer DNEL, Acute	Local effects	Inhalation	1.2 mg/m ³
Consumer DNEL, longterm	Local effects	Inhalation	0,6 mg/m ³
Consumer DNEL, longterm	Local effects	Oral	25 mg/kg Body weight

Predicted No Effect Concentration (PNEC)

PNEC Fresh water	2.2 mg/l
PNEC Marine water	0.22 mg/l
PNEC Aquatic intermittent release	1.2 mg/l
PNEC Sewage treatment plant	43 mg/l
PNEC Soil	0.72 mg/kg

Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

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If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

Information on basic physical and chemical properties

Appearance	Form: Solid Colour: Colourless
Odour	Odourless
Odour Threshold	No data available
pH	4.0 - 5.5 at 10 g/l at 23 °C (73 °F)
Melting point/freezing point	Melting point/range: 248 °C (478 °F)
Initial boiling point and boiling range	No data available
Flash point	> 100 °C (> 212 °F) - DIN 51758
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	ca.100 g/l at 20 °C (68 °F)
Partition coefficient: n-octanol/water	No data available
Ignition temperature	> 100 °C (> 212 °F)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

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Explosive properties No data available

Oxidizing properties No data available

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

Releases water of crystallization when heated. 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

Incompatible materials

Aluminium, Copper, Copper alloys, Nickel, Zinc

Hazardous decomposition products

In the event of fire: see section 5

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

Acute toxicity

Oral: LD50 Rat: 2.800 mg/kg

OECD Test Guideline 401

(anhydrous substance)

Inhalation: Acute toxicity estimate: 1,6 mg/l; dust/mist

Expert judgement

Dermal: No data available

Skin corrosion/irritation

Rabbit

Result: No irritation

OECD Test Guideline 404

(anhydrous substance)

Serious eye damage/eye irritation

Rabbit

Result: No eye irritation

(ECHA) (anhydrous substance)

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative

(anhydrous substance) (Lit.)

Mouse lymphoma test

Result: negative

(ECHA) (anhydrous substance)

Carcinogenicity

No data available

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Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Repeated dose toxicity

Rat male

Inhalation aerosol

5 d daily

LOAEL: 0,03 mg/l

OECD Test Guideline 412 Target Organs: Lungs, larynx

Rat

Male and female Inhalation dust/mist

90 d daily

NOAEL: 0,003 mg/l OECD Test Guideline 413 Target Organs: larynx

Rat male Oral

13 Weeks daily

NOAEL: >= 500 mg/kg (ECHA)

Aspiration hazard

No data available

Additional Information

No data available

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Toxicity

Toxicity to fish LC50 Poecilia reticulata (guppy): ca. 320 mg/l;
96 h (anhydrous substance) (IUCLID)

Toxicity to bacteria EC50 activated sludge: 403 mg/l; 3 h
OECD Test Guideline 209
EC50 Pseudomonas putida: 56 mg/l;
8 h (anhydrous substance) (IUCLID)

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Other adverse effects

Discharge into the environment must be avoided.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material

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Contaminated packaging

Dispose of as unused product.

SECTION 14. ----- TRANSPORT INFORMATION -----

TDG (Canada)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15. ----- REGULATORY INFORMATION -----

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

SECTION 16. ----- OTHER INFORMATION -----

Further information: no limited for paper copy, just for internal uses.
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

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

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Training advice

Provide adequate information, instruction and training for operators.

Labelling

Hazard pictograms



Signal word

Warning

Hazard statements

H332 Harmful if inhaled.

H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary statements

Response

P314 Get medical advice/ attention if you feel unwell.

Contains: Disodium dihydrogen ethylenediaminetetraacetate dihydrate

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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.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Issuing Date: 31-Dec-2022

End of SDS