Safety data sheet

EDTA, Disodium Salt, Dihydrate, Molecular Biology Grade

Product name EDTA, Disodium Salt, Dihydrate, Molecular Biology Grade	Catalog no. EDD05, EDD10
Synonyms Disodium EDTA dihydrate	SDS revision -
CAS no. 6381-92-6	Format version / date 1.0 / 24 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	EDTA, Disodium Salt, Dihydrate, Molecular Biology Grade
Product code	EDD05, EDD10
CAS number	6381-92-6
EC number	-
Recommended use	For research use only. Not intended for diagnostic or therapeutic use.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	GB-CLP (UK SI 2019/720 and UK SI 2020/1567): Acute inhalation toxicity (dusts and mists), Category 4 (H332); Specific target organ toxicity - repeated exposure, Category 2 (H373). Physical and environmental classification criteria are not met.
Label elements	GB-CLP classification.
Symbols / pictograms	
Signal word	Warning
Hazard statements	H332: Harmful if inhaled. H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Precautionary statements	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P304+P312: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Other hazards	Not considered PBT or vPvB. No known or suspected endocrine disruptors.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Substance	EDTA, Disodium Salt, Dihydrate, Molecular Biology Grade
CAS number	6381-92-6
Molecular formula	C10H14N2Na2O8 · 2H2O
Molar mass	372.24 g/mol

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse with water for several minutes; remove contact lenses if present and easy to do. Continue rinsing and consult a physician if needed.
Skin contact	Rinse skin thoroughly with water or shower. Seek advice if irritation occurs.
Inhalation	Move to fresh air. Obtain medical advice if symptoms occur or exposure is suspected.
Ingestion	Rinse mouth and drink water. Do not induce vomiting. Seek medical advice promptly.
Self-protection of first aider	Use protective equipment appropriate to the exposure.
Most important symptoms / effects	No information available.
Immediate medical attention / treatment	Treat symptomatically.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), foam or dry chemical.
Unsuitable extinguishing media	No information available.
Special hazards arising from the substance or mixture	Thermal decomposition may release irritating gases and vapours.
Explosion data	Sensitivity to mechanical impact and static discharge: No information available.
Advice for firefighters	Use self-contained breathing apparatus and full protective gear.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ventilate the area and wear appropriate personal protective equipment. Avoid generating dust.
Environmental precautions	Prevent uncontrolled releases and collect spill residues.
Methods and materials for containment and cleaning up	Sweep carefully into a closed container without generating dust. Dry lime or soda is indicated in the spill instructions.
Reference to other sections	See Section 13 for disposal.

07 HANDLING AND STORAGE

Precautions for safe handling	Avoid eye, skin and clothing contact. Wash thoroughly after handling, and minimise dust generation. Wash contaminated clothing before reuse.
Conditions for safe storage	Keep tightly closed and properly labelled, in a cool, dry, well-ventilated area away from incompatible materials.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with established occupational exposure limit values.

8.2 Exposure controls

Engineering measures	Ensure sufficient ventilation, especially in enclosed areas.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handling.
Eye / face protection	Tight-sealing safety goggles.
Hand protection	Wear suitable gloves. Use compatible chemical-resistant gloves.
Skin and body protection	Wear laboratory coat or impervious clothing. Choose protection appropriate for the amount and concentration at the workplace.
Respiratory protection	Use an appropriate approved respirator when ventilation is insufficient.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White powder solid
Odor	No odor
Odor threshold	No data available
pH	4-6
Melting point / freezing point	252 °C / 485.6 °F
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	water soluble
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10 STABILITY AND REACTIVITY

Reactivity	Stable under normal temperatures and pressures.
Chemical stability	Stable under normal temperatures and pressures.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	Dust generation and excess heat.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Oral and dermal: Classification criteria are not met. Inhalation: Category 4. Disodium EDTA: oral LD50 (rat) greater than 2 g/kg.
Skin corrosion / irritation	No data available
Serious eye damage / eye irritation	No data available
Carcinogenicity	Not listed by ACGIH, IARC, NTP or OSHA.
Reproductive toxicity	No data available
STOT - SE	No data available
STOT - RE	Category 2; animal neurotoxicity findings are reported.
Aspiration hazard	No data available

11.2 Potential health effects

Neurological adverse effects have been reported in animal studies. Other epidemiology, teratogenicity, reproductive and mutagenicity information is not available.

11.3 Additional information

No additional information is available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Disodium EDTA: fish (Leuciscus idus) LC50 >500 mg/L (96 h); water flea >100 mg/L (24 h); Microtox EC50 56 mg/L (8 h).
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Waste is classified as hazardous. Dispose of according to European waste directives and local regulations.
Contaminated packaging	Dispose of through a suitable hazardous waste service and comply with local requirements.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
DOT (US)	Not applicable	Not regulated	Not applicable	Not applicable	No
IMDG	Not applicable	Not regulated	Not applicable	Not applicable	No
IATA	Not applicable	Not regulated	Not applicable	Not applicable	No

15 REGULATORY INFORMATION

Chemical inventories	EDTA disodium salt dihydrate (CAS 6381-92-6) and disodium EDTA (CAS 139-33-3) appear in international inventory tables.
EU REACH	No Annex XIV authorisation or Annex XVII restrictions indicated.
PFAS / Seveso	PFAS: Not applicable. Seveso III: Not applicable.
Germany water hazard class	WGK 2.
Occupational legislation	Take note of Directive 98/24/EC and UK COSHH, as amended.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail