

MATERIAL SAFETY DATA SHEET

Product Name: E.D.T.A Solution 0.1 M

CAS No.: 6381-92-6

Version: 1

1. Identification

Product Code : 91733
Company Name : Advent Chembio Private Limited
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2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
E.D.T.A. DISODIUM SALT DIHYDRATE	6381-92-6	0.1+/-0.005 N

3. Hazards Identification**Hazard classification****Health hazards**

Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2
Specific target organ toxicity - single exposure : Category 3

Labels elements**Hazard symbol**

Signal word : Warning.
Hazard statement : Causes serious eye irritation.
Causes skin irritation.
May cause respiratory irritation.

Precautionary statement**Prevention**

: Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling.

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/attention. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a

MATERIAL SAFETY DATA SHEET**Product Name:** E.D.T.A Solution 0.1 M**CAS No.:** 6381-92-6**Version:** 1

- position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- Storage:** : Store in a well-ventilated place. Keep container tightly closed. Store locked up.
- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Other hazards which do not result in GHS classification** : None.

4. First Aid Measures

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
- Inhalation** : Move to fresh air. Get medical attention if symptoms persist.
- Skin contact** : Wash skin thoroughly with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.
- Most important symptoms/effects, acute and delayed** : May cause irritation to skin, eyes, and respiratory tract.
- Indication of immediate medical attention and special treatment needed** : Treat symptomatically. Symptoms may be delayed.

MATERIAL SAFETY DATA SHEET

Product Name: E.D.T.A Solution 0.1 M

CAS No.: 6381-92-6

Version: 1

5. Fire fighting measures

General fire hazards : Powdered material may form explosive dust-air mixtures.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Dust may form explosive mixture with air.

Special protective equipment and precautions for firefighters

Special fire fighting procedures : Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures : Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up : Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

Notification Procedures : Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

Environmental precautions : Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

MATERIAL SAFETY DATA SHEET

Product Name: E.D.T.A Solution 0.1 M

CAS No.: 6381-92-6

Version: 1

7. Handling and Storage

- Precautions for safe handling** : Avoid generation and spreading of dust. Dust may form explosive mixture with air. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use non-sparking hand tools and explosion-proof electrical equipment. Ground container and transfer equipment to eliminate static electric sparks. Avoid breathing dust or vapor. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling.
- Conditions for safe storage, including any incompatibilities** : Keep container tightly closed. Store in a well-ventilated place.

8. Exposure Controls Personal Protection**Control parameters**

Occupational exposure limits : None of the components have assigned exposure limits.

Appropriate engineering controls : No data available.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection : Wear safety glasses with side shields (or goggles).

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing and gloves.

Respiratory protection : In case of inadequate ventilation, use respiratory protection.

Hygiene measures : Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance : A clear colourless liquid

Odor : Odorless

pH : No data available.

Melting point/freezing point : 252 °C

Initial boiling point and boiling range : No data available.

Flash Point : No data available

Vapor pressure : No data available.

MATERIAL SAFETY DATA SHEET**Product Name:** E.D.T.A Solution 0.1 M**CAS No.:** 6381-92-6**Version:** 1

Vapor density : No data available
Relative density : No data available.
Solubility in water : Soluble
Solubility (other) : No data available.
Formula : $C_{10}H_{16}N_2O_8 \cdot 2H_2O \cdot 2Na$
Molecular Weight : 372.24 g/mol

10. Stability and Reactivity

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable; however, may decompose if heated.
Possibility of hazardous reactions : The substance is hygroscopic and will absorb water by contact with the moisture in the air. Hazardous polymerization does not occur.
Conditions to avoid : Avoid dust formation. Excessive heat.
Incompatible materials : Strong oxidizing agents.
Hazardous decomposition products : Thermal decomposition may produce oxides of carbon and nitrogen. Sodium oxides.

11. Toxicological Information**Information on likely routes of exposure**

Ingestion : May be harmful if swallowed. May cause irritation of the gastrointestinal tract.
Inhalation : May cause irritation to the respiratory system.
Skin contact : Causes mild skin irritation.
Eye contact : Causes serious eye irritation.

Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

Oral Product : LD 50 (Rat): > 2,000 mg/kg
Dermal Product : No data available.
Inhalation Product : No data available
Repeated dose toxicity Product : No data available.
Skin corrosion/irritation Product : Causes mild skin irritation.
Serious eye damage/eye irritation Product : Causes serious eye irritation.
Respiratory or skin sensitization Product : Not a skin sensitizer.
Carcinogenicity Product : This substance has no evidence of carcinogenic properties.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE : No carcinogenic components identified.

MATERIAL SAFETY DATA SHEET**Product Name:** E.D.T.A Solution 0.1 M**CAS No.:** 6381-92-6**Version:** 1

US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE	:	No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	:	No carcinogenic components identified.
Germ cell mutagenicity	:	
In vitro Product	:	No mutagenic components identified.
In vivo Product	:	No mutagenic components identified.
Reproductive toxicity Product	:	No components toxic to reproduction.
Specific target organ toxicity - single exposure Product	:	Respiratory tract irritation.
Specific target organ toxicity - repeated exposure Product	:	None known
Aspiration hazard Product	:	Not classified
Other effects	:	None known.

12. Ecological Information**Ecotoxicity****Acute hazards to the aquatic environment :****Fish Product** : No data available.**Aquatic invertebrates Product** : No data available.**Chronic hazards to the aquatic environment :****Fish Product** : No data available.**Aquatic invertebrates Product** : No data available.**Toxicity to Aquatic Plants Product:** : No data available.**Persistence and degradability****Biodegradation Product** : There are no data on the degradability of this product.**BOD/COD ratio Product** : No data available.**Bioaccumulative potential
Bioconcentration factor (BCF)
Product** : No data available on bioaccumulation.**Partition coefficient n-octanol /
water (log Kow) Product** : No data available.**Mobility in soil** : The product is water soluble and may spread in water systems.**Other adverse effects** : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

MATERIAL SAFETY DATA SHEET

Product Name: E.D.T.A Solution 0.1 M

CAS No.: 6381-92-6

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13. Disposal consideration

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.
- Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not regulated.		
IMDG			Not regulated.		
IATA			Not regulated.		

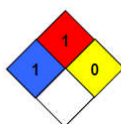
15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information

NFPA Hazard ID



■ Flammability
■ Health
■ Reactivity
 Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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