

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **EDTA Disodium salt**
Product Code E57020
CAS Number 6381-92-6
Other Names
IUPAC
MFCN Number
EC/EINECS
REACH Number Index-No

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

Laboratory Research and Development

3. Details of the supplier of the safety data sheet

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Bildeston Road, Chelsworth
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4. Emergency telephone number

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2. Hazards Identification

1. Classification of the substance or mixture

H332	Acute Tox. 4	
H373	STOT RE 2	

2. Label elements

Signal Word **Warning**



Hazard Statements

H332	Harmful if inhaled.
H373	May cause damage to organs ..

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
EDTA Disodium salt		
CAS Number: 6381-92-6	H332, H373 Acute Tox. 4, STOT RE 2	<=100%

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	Wash with plenty of soap and water. Consult a doctor.
<i>Eye Contact</i>	Bathe the eye with running water for 15 minutes. Consult a doctor.
<i>Ingestion</i>	Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Move to fresh air in case of accidental inhalation. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

2. Most important symptoms and effects

No data available

3. Indication of any immediate medical attention

P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P314: Get medical advice/attention if you feel unwell.
Notes to Physician Treat symptomatically

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Carbon dioxide.
Alcohol or polymer foam.
Dry chemical powder.

Unsuitable None

2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes:
Carbon Oxides, Nitrogen Oxides (NOx) Sodium Oxides

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7. Handling and Storage

1. Personal Precautions

Safe Handling Ensure there is exhaust ventilation of the area.
*Protection against
explosions and fires* Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.

Storage Controls Keep container tightly closed.

Maintaining Integrity

Other advice No further information available.

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures The standard precautionary measures should be adhered to when handling

Engineering measures P271: Use only outdoors or in a well-ventilated area.
Ensure there is exhaust ventilation of the area.

Eye / Face Protection Safety Glasses with side-shields.
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Hand protection Protective gloves.
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.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

Respiratory protection P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
Where risk assessment indicates respiratory protection is required use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin 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.

Other personal protection advice no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Powder
Odour	Odourless
Odour threshold	No Data Available
PH	4-5
Melting point / Freezing point	Decomposes, 252°C
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

Vapour pressure	2E-012 hPa
Vapour density	No Data Available
Relative density	1.767 g/cm ³
Solubility(ies):	108g/L (water)
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	>400°C
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

No data available

2. Stability

Stable under recommended storage conditions

3. Possibility of Hazardous Reactions

No data available

4. Conditions to Avoid

No data available

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	LD50 Oral > 2800 mg/kg (rat)
<i>Skin corrosion/irritation</i>	LOAEC Inhalation ca. 30mg/m ³ based on act. ing. (Na ₂ H ₂ EDTA)(rat) no data
<i>Serious eye Damage/irritation</i>	no data
<i>Respiratory or skin sensitisation</i>	no data
<i>Germ Cell mutagenicity</i>	no data
<i>Carcinogenicity</i>	not known
<i>Reproductive toxicity</i>	not known
<i>STOT-single exposure</i>	not known
<i>STOT-repeated exposure</i>	not known
<i>Aspiration hazard</i>	not known

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

Short term effects on fish

Lepomis macrochirus, freshwater

LC50 (96h): 41 mg/L (very soft water)

LC50 (96hr) 159mg/L (medium hard water)

LC50 (96hr) 532mg/L (very hard water)

Salmo gairneri LC100 (24hr) 860mg/L

Long term effects on fish

Brachydanio rerio

NOEC (35d): ≥ 25.7 mg/L (act. ing. H4EDTA)

early life stage: reproduction, sublethal effects

Aquatic invertebrates- short term effects

Daphnia Magna

EC50 (48hr) 140mg/L, based on mobility (100-180 mg/L)

EC50 (24hr) 610mg/L, based on mobility

2. Persistence and degradability

Not readily biodegradable according to OECD criteria

3. Bio-Accumulative Potential

No information available

4. Mobility and Soil

No information available

5. Results of PBT & vPvB assessment

No information available

6. Other adverse effects

May be harmful to the aquatic environment

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

Product is not subject to any additional regulations or provisions.

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.