

## EDTA DISODIUM

## EDTA

### SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product identifier

**Identification of the product** : Raw Material  
**Product code** : EDTA\*\*\*\*  
**Trade name** : EDTA Disodium  
**Synonym(s)** : EDTA Na<sub>2</sub>.2H<sub>2</sub>O, Ethylenediaminetetra-acetate Disodium Dihydrate  
**CAS number** : 6381-92-6

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

**Use** : For research purposes only

#### 1.3. Details of the supplier of the safety data sheet

**Company identification** : **Formedium Ltd.**  
 King's Lynn, England, PE31 6DJ  
 Tel: +44(0)1485 609069  
 Web: www.Formedium.com  
 E-mail: info@formedium.com

#### 1.4. Emergency telephone number

**Emergency phone nr** Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)  
 NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

### SECTION 2 Hazards Identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) 1272/2008

**Acute toxicity, Inhalation (Category 4)**

: H332 – Harmful if inhaled.

**Specific target organ toxicity – repeated exposure**

**Inhalation (Category 2), Respiratory Tract**

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



**Signal Word: WARNING**

#### 2.2. Label elements

##### Labelling according to Regulation (EC) 1272/2008

**Hazard statement(s):** H332 – Harmful if inhaled.

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

**Precautionary statement(s):** P260 – Do not breathe dust/fumes/gas/mist/vapours/spray

**Supplementary hazard statements:** None

#### 2.3 Other hazards

This substance / mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent, bioaccumulative and toxic (vPBT) at levels of 0.1% or higher.

### SECTION 3 Composition/Information on Ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008

#### Component

Substance name	contents	CAS No	EC No	Classification
Edetate disodium dihydrate	<=100 %	6381-92-6	205-358-3	Acute Tox. 4; STOT RE 2; H332, H373

Molecular Weight: 372.24 g/mol

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Formedium Ltd.

King's Lynn, England, PE31 6DJ

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Web: www.Formedium.com

E-mail: info@formedium.com

**In case of emergency :+44(0)1485 609069**

**EDTA DISODIUM****EDTA****SECTION 4 First Aid Measures****4.1. Description of first aid measures**

**General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact** : Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact** : Flush eyes with water as a precaution.

**If swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2. Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5 Fire-fighting Measures****5.1. Extinguishing media**

**Suitable extinguishing media** : Alcohol-resistant foam, Carbon Dioxide (C<sup>o</sup>2), Dry chemical, Water Spray

**5.2. Special hazards arising from the substance or mixture**

No data available.

**5.3. Advice for fire-fighters**

If necessary, wear self-contained breathing apparatus for firefighting.

**5.4. Further information**

No data available.

**SECTION 6 Accidental Release Measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**6.2. Environmental precautions**

Do not let product enter drains.

**6.3. Methods and material for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**

For disposal, see section 13

**SECTION 7 Handling and Storage****7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**7.3. Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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### SECTION 8 Exposure Controls / Personal Protection

#### 8.1. Control parameters

##### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

#### 8.2. Exposure controls

##### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### **Personal protective equipment**

##### **Eye / face protection:**

Safety glasses with side-shields conforming to EN166 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.

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

##### **Body protection:**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection:**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Do not let product enter drains.

### SECTION 9 Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

- |   |                                   |
|---|-----------------------------------|
| a) Appearance                                   | Form: solid<br>Colour: Colourless |
| b) Odour  | Odourless                         |
| c) Odour Threshold                              | No data available                 |
| d) pH   | 4.0 – 5.5 at 10g/L at 23 °C       |
| e) Melting point/freezing point                 | Melting point/range: 248 °C       |
| f) Initial boiling point and boiling range      | No data available                 |
| g) Flash point                                  | > 100 °C – DIN 51758              |
| h) Evaporation rate                             | No data available                 |
| i) Flammability (solid, gas)                    | No data available                 |
| j) Upper/lower flammability or explosive limits | No data available                 |
| k) Vapour pressure                              | No data available                 |
| l) Vapour density                               | No data available                 |
| m) Relative density                             | No data available                 |
| n) Water solubility                             | ca 100 g/L at 20 °C               |
| o) Partition coefficient: n octanol/water       | No data available                 |
| p) Auto-ignition temperature                    | No data available                 |
| q) Decomposition temperature                    | No data available                 |
| r) Viscosity                                    | No data available                 |
| s) Explosive properties                         | No data available                 |
| t) Oxidizing properties                         | No data available                 |

#### 9.2. Other safety information

No data available

**EDTA DISODIUM****EDTA****SECTION 10 Stability and Reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NOx), Sodium oxides.

Other decomposition products - No data available

In the event of fire: see section 5

**SECTION 11 Toxicological Information****11.1. Information on toxicological effects****Acute toxicity**

LD50 Oral - Rat - &gt; 2,000 mg/kg

**Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation

(OECD Test Guideline 404)

**Serious eye damage/eye irritation**

Eyes – Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available.

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: AH4410000

To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.

**EDTA DISODIUM****EDTA****SECTION 11 Toxicological Information (Continued)****11.2. Additional Information****Endocrine disrupting properties :**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 12 Ecological Information****12.1. Toxicity**

Toxicity to fish	LC50 – Leuciscus idus (Golden Orfe) - > 500 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - >100 mg/l - 24 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) – 10 1 100 mg/l - 24 h

**12.2. Persistence and degradability**

Biodegradability	Result: 0 % - Readily biodegradable. Remarks: No data available.
Chemical Oxygen Demand (COD)	590 mg/g

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

This substance / mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent, bioaccumulative and toxic (vPBT) at levels of 0.1% or higher.

**12.6. Other adverse effects**

No data available.

**12.7. Endocrine disrupting properties**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 13 Disposal Considerations****13.1. Waste treatment methods**

<b>Product</b>	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator with an afterburner and scrubber.
<b>Contaminated packaging</b>	Dispose of as unused product

**EDTA DISODIUM****EDTA****SECTION 14 Transport Information****14.1. UN Number**

ADR/RID: -

IMDG: -

IATA: -

**14.2. UN Proper shipping name**

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

**14.3. Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4. Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**14.5. Environmental hazards**

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

**14.6. Special precautions for user**

No data available.

**14.7. Bulk transport - annex II Marpol 73/78 - IBC**

No data available.

**SECTION 15 Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 2015/830

**15.2. Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16 Other Information****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.

**Further information:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Revision:**

Complete SDS revision.

End of document