

**Safety Data Sheet**

according to UK REACH Regulation

**EDTA solution 1.107 %**

Revision date: 30.11.2023

Product code: 19246.xxxxx

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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UFI: AC9Q-81UH-S00U-UJER

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

**Uses advised against**

Any non-intended use.

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

|                 |                                    |                                   |
|-----------------|------------------------------------|-----------------------------------|
| Company name:   | MORPHISTO GmbH                     |                                   |
| Street:         | Schumannstr. 144                   |                                   |
| Place:          | D-63069 Offenbach                  |                                   |
| Telephone:      | +49 (0) 69 / 400 3019-60           | Telefax: +49 (0) 69 / 400 3019-64 |
| E-mail:         | info@morphisto.de                  |                                   |
| Contact person: | Morphisto GmbH                     |                                   |
| E-mail:         | gefahrstoffmanagement@morphisto.de |                                   |
| Internet:       | http://www.morphisto.de            |                                   |

**1.4. Emergency telephone number:**

Morphisto GmbH, Tel: +49(0)69 400 3019-60, Mo-Fr.: 09-16 Uhr

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

**2.2. Label elements****GB CLP Regulation****Special labelling of certain mixtures**

EUH210 Safety data sheet available on request.

**2.3. Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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**Hazardous components**

| CAS No    | Chemical name                                   |          |                  | Quantity  |
|-----------|---|----------|------------------|-----------|
|           | EC No   | Index No | REACH No         |           |
|           | Classification (GB CLP Regulation)              |          |                  |           |
| 6381-92-6 | Disodium dihydrogen ethylenediaminetetraacetate |          |                  | 1 - < 5 % |
|           | 205-358-3                                       |          | 01-2119486775-20 |           |
|           | Acute Tox. 4, STOT RE 2; H332 H373              |          |                  |           |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No    | EC No   | Chemical name                                   | Quantity  |
|-----------|---|---|-----------|
|           | Specific Conc. Limits, M-factors and ATE  |   |           |
| 6381-92-6 | 205-358-3   | Disodium dihydrogen ethylenediaminetetraacetate | 1 - < 5 % |
|           | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 2800 mg/kg |   |           |

**Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

Take off contaminated clothing and wash it before reuse. Wash with plenty of water. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**
**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn.

**Unsuitable extinguishing media**

none

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

Non-flammable. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

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**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Conditions to avoid: Generation/formation of aerosols. Wear personal protection equipment. (See section 8. ).  
Avoid contact with skin, eyes and clothes.

**For non-emergency personnel**

Ventilate affected area.

**For emergency responders**

Move undamaged containers from immediate hazard area if it can be done safely. Stop leak if safe to do so.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clear contaminated areas thoroughly.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Use extractor hood (laboratory). Wear suitable protective clothing. ( See section 8. ). Avoid contact with skin, eyes and clothes.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Draw up and observe skin protection programme. Always close containers tightly after the removal of product.

**Further information on handling**

Conditions to avoid: Generation/formation of aerosols

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place. Recommended storage temperature: 15-25°C

**Hints on joint storage**

Do not store together with: food and feed. pharmaceuticals. Infectious substances. Radioactive substances. Explosive substances. Oxidizing substances. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Pyrophoric solids. Substances which in contact with water form flammable gases. Ammonium nitrate and preparations containing ammonium nitrate.

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#### Further information on storage conditions

Keep/Store only in original container. Protect against: frost. heat. Cold. Humidity

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

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL/DMEL values

| CAS No                 | Substance                                       | Exposure route | Effect | Value                 |
|------------------------|---|----------------|--------|-----------------------|
| 6381-92-6              | Disodium dihydrogen ethylenediaminetetraacetate |                |        |                       |
| Worker DNEL, long-term |   | inhalation     | local  | 1,5 mg/m <sup>3</sup> |
| Worker DNEL, acute     |   | inhalation     | local  | 3 mg/m <sup>3</sup>   |

##### PNEC values

| CAS No   | Substance                                       | Value     |
|--|---|-----------|
| 6381-92-6  | Disodium dihydrogen ethylenediaminetetraacetate |           |
| Freshwater                                       |   | 2,2 mg/l  |
| Marine water                                     |   | 0,22 mg/l |
| Micro-organisms in sewage treatment plants (STP) |   | 43 mg/l   |
| Soil   |   | 0.72 mg/l |

#### Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### 8.2. Exposure controls

##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Use extractor hood (laboratory).

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection. Suitable eye protection: Tightly sealed safety glasses. EN 166

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374

Suitable material:

(penetration time (maximum wearing period):  $\geq$  8 h):

CR (polychloroprenes, Chloroprene rubber). (0,5 mm)

NBR (Nitrile rubber). (0,35 mm)

FKM (fluororubber). (0,4 mm)

PVC (Polyvinyl chloride). (0,5 mm)

Butyl rubber. (0,5 mm)

Before using check leak tightness / impermeability.

##### Skin protection

Use of protective clothing. Suitable protective clothing: Lab apron.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal

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conditions, breathing protection is not required.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|   |                |                        |
|---|----------------|------------------------|
| Physical state:   | liquid         |                        |
| Colour:   | colourless     |                        |
| Odour:  | characteristic |                        |
| Melting point/freezing point:                             |                | not determined         |
| Boiling point or initial boiling point and boiling range: |                | 100 °C                 |
| Flammability:   |                | not determined         |
| Lower explosion limits:                                   |                | not determined         |
| Upper explosion limits:                                   |                | not determined         |
| Flash point:  |                | not determined         |
| Auto-ignition temperature:                                |                | not determined         |
| Decomposition temperature:                                |                | not determined         |
| pH-Value (at 20 °C):                                      |                | 4-5                    |
| Viscosity / kinematic:                                    |                | not determined         |
| Water solubility:<br>(at 20 °C)                           |                | completely miscible    |
| Solubility in other solvents                              |                | not determined         |
| Partition coefficient n-octanol/water:                    |                | not determined         |
| Vapour pressure:<br>(at 20 °C)                            |                | 23 hPa                 |
| Vapour pressure:<br>(at 50 °C)                            |                | 123 hPa                |
| Density (at 20 °C):                                       |                | 1,01 g/cm <sup>3</sup> |
| Relative vapour density:                                  |                | not determined         |
| Particle characteristics:                                 |                | not applicable         |

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

The product is not: Explosive.

## Sustaining combustion:

Not sustaining combustion

## Oxidizing properties

The product is not: oxidising.

**Other safety characteristics**

## Evaporation rate:

not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

Stable under normal storage and handling conditions.

**10.3. Possibility of hazardous reactions**

Reacts with : Substances which in contact with water, emit flammable gases.

**10.4. Conditions to avoid**

Keep away from heat. Protect against: frost.

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**10.5. Incompatible materials**

Materials to avoid: Substances which in contact with water, emit flammable gases.

**10.6. Hazardous decomposition products**

 In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

**SECTION 11: Toxicological information**
**11.1. Information on hazard classes as defined in GB CLP Regulation**
**Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) 993,7 mg/l; ATE (inhalation dust/mist) 135,5 mg/l

| CAS No    | Chemical name                                   |               |          |        |                 |
|-----------|---|---------------|----------|--------|-----------------|
|           | Exposure route                                  | Dose          | Species  | Source | Method          |
| 6381-92-6 | Disodium dihydrogen ethylenediaminetetraacetate |               |          |        |                 |
|           | oral  | LD50<br>mg/kg | 2800     | Rat    | Lieferanten SDB |
|           | inhalation vapour                               | ATE           | 11 mg/l  |        |                 |
|           | inhalation dust/mist                            | ATE           | 1,5 mg/l |        |                 |

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**
**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**SECTION 12: Ecological information**
**12.1. Toxicity**

Based on available data, the classification criteria are not met.

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| CAS No    | Chemical name                                   |                |           |                    |                 |        |
|-----------|---|----------------|-----------|--------------------|-----------------|--------|
|           | Aquatic toxicity                                | Dose           | [h]   [d] | Species            | Source          | Method |
| 6381-92-6 | Disodium dihydrogen ethylenediaminetetraacetate |                |           |                    |                 |        |
|           | Acute fish toxicity                             | LC50 >100 mg/l | 96 h      | Ocorhynchus mykiss | ECHA (139-33-3) |        |
|           | Acute crustacea toxicity                        | EC50 140 mg/l  | 48 h      | Daphnia magna      | ECHA (139-33-3) |        |
|           | Fish toxicity                                   | NOEC >35 mg/l  | 35 d      | Danio rerio        | ECHA            |        |
|           |   |                |           | Danio rerio        |                 |        |
|           | Crustacea toxicity                              | NOEC 25 mg/l   | 21 d      | Daphnia magna      | ECHA            |        |

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

| CAS No    | Chemical name                                   | Log Pow |
|-----------|---|---------|
| 6381-92-6 | Disodium dihydrogen ethylenediaminetetraacetate | 1,8     |

#### 12.4. Mobility in soil

The product has not been tested.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal.

##### List of Wastes Code - residues/unused products

160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

##### List of Wastes Code - used product

160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

##### List of Wastes Code - contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

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**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Inland waterways transport (ADN)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Marine transport (IMDG)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Other applicable information (marine transport)**

Not restricted

**Air transport (ICAO-TI/IATA-DGR)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Other applicable information (air transport)**

Not restricted

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Not restricted

**14.7. Maritime transport in bulk according to IMO instruments**

Not restricted

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

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**For the following substances of this mixture a chemical safety assessment has been carried out:  
Disodium dihydrogen ethylenediaminetetraacetate**SECTION 16: Other information****Changes**



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**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>  
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).  
Acute Tox: Acute toxicity  
STOT RE: Specific target organ toxicity - repeated exposure

**Relevant H and EUH statements (number and full text)**

|        |  |
|--------|--|
| H332   | Harmful if inhaled.  |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| EUH210 | Safety data sheet available on request.                            |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*