

according to UK REACH Regulation

# EDTA Decalcifying Solution ~ 20 %, pH 7.0 - 7.2

Revision date: 15.05.2023

Product code: 16529.xxxxx

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

EDTA Decalcifying Solution ~ 20 %, pH 7.0 - 7.2

#### UFI:

V3SF-31GX-M008-K15F

## 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. 142/144	
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.c	de
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Poison Information Center Mainz, Ge	rmany, Tel: +49(0)6131/19240
•		

### number:

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### **GB CLP Regulation**

Hazard components for labelling

Disodium dihydrogen ethylenediaminetetraacetate

Warning

Signal word: Pictograms:

#### Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P314	Get medical advice/attention if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.

# Labelling of packages where the contents do not exceed 125 ml



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Signal word: Pictograms:



# 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

### **Relevant ingredients**

CAS No	Chemical name					
	EC No Index No REACH No					
	Classification (GB CLP Regulation)					
6381-92-6	Disodium dihydrogen ethylenediaminetetraacetate					
	205-358-3		01-2119486775-20			
	Acute Tox. 4, STOT RE 2;	H332 H373				
1310-73-2	Sodium hydroxide	1 - < 5 %				
	215-185-5	011-002-00-6	01-2119457892-27			
	Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1; H290 H314 H318					

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

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	EC No Chemical name					
	Specific Conc. I	Specific Conc. Limits, M-factors and ATE					
6381-92-6	205-358-3	205-358-3 Disodium dihydrogen ethylenediaminetetraacetate					
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 2800 mg/kg						
1310-73-2	215-185-5	Sodium hydroxide	1 - < 5 %				
		- 1314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < ; H318: >= 2 - 100 Eye Irrit. 2; H319: >= 0,5 - < 2					

#### **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.



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### 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

High power water jet.

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

Non-flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2).

#### 5.3. Advice for firefighters

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

### Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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

Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8



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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. Draw up and observe skin protection programme. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

#### Further information on handling

Conditions to avoid: Generation/formation of aerosolsAvoid contact with skin, eyes and clothes.

#### 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.

# 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

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

#### **DNEL/DMEL** values

CAS No	Substance							
DNEL type		Exposure route	Effect	Value				
6381-92-6	6381-92-6 Disodium dihydrogen ethylenediaminetetraacetate							
Worker DNEL,	Worker DNEL, long-term inhalation local 1,5 mg/m <sup>3</sup>							
Worker DNEL, acute inhalation local 3 mg/m <sup>3</sup>				3 mg/m³				
1310-73-2	1310-73-2 Sodium hydroxide							
Worker DNEL, long-term inhalation local 1 mg/m <sup>3</sup>								
Consumer DNE	Consumer DNEL, long-term inhalation local 1 mg/m <sup>3</sup>							



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### **PNEC** values

CAS No	Substance					
Environmental	Environmental compartment Value					
6381-92-6	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 exhaustion 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): >= 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 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		100 °C
boiling range:		
Flammability:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined



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Decomposition temperature:	not determined	
pH-Value (at 20 °C):	7-8	
Viscosity / kinematic:	not determined	
Water solubility: (at 20 °C)	completely miscible	
Vapour pressure: (at 20 °C)	23 hPa	
Vapour pressure: (at 50 °C)	123 hPa	
Density (at 20 °C):	1,07 g/cm³	
9.2. Other information		
Information with regard to physical haza Explosive properties	d classes	
The product is not: Explosive. Sustaining combustion: Oxidizing properties The product is not: oxidising.	Not sustaining combustion	
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 that form flammable gases when in contact with water.

#### 10.4. Conditions to avoid

Keep away from heat. Protect against: frost.

## 10.5. Incompatible materials

Materials to avoid: Substances that form flammable gases when in contact with water.

# 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx).

# **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) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 78,85 mg/l; ATE (inhalation dust/mist) 10,75 mg/l



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

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

# 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

May cause damage to organs through prolonged or repeated exposure. (Disodium dihydrogen ethylenediaminetetraacetate)

#### 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

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

## **SECTION 12: Ecological information**

# 12.1. Toxicity

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

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
6381-92-6	Disodium dihydrogen ethylenediaminetetraacetate							
	Acute fish toxicity	LC50 mg/l	>100	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 rero	ECHA		
					Danio rerio			
	Crustacea toxicity	NOEC	25 mg/l	21 d	Daphnia magna	ECHA		
1310-73-2	Sodium hydroxide							
	Acute fish toxicity	LC50 mg/l	35-189	96 h	fish	ECHA		
	Acute crustacea toxicity	EC50 mg/l	30-1000	48 h	Ceriodaphnia sp.	ECHA		



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## 12.2. Persistence and degradability

There are no data available on the preparation/mixture itself.

## 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**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

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

## List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

#### List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

## List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

# Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

Inland waterways transport (ADN)

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Marine transport (IMDG)				
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Other applicable information (marine Not restricted	transport)			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Other applicable information (air trans Not restricted	port)			
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 re-	gulations/legislation specific for the substance or mixture			
EU regulatory information				
Restrictions on use (REACH, annex XV	II):			
Entry 3, Entry 75				
Information according to Directive	Not subject to 2012/18/EU (SEVESO III)			
2012/18/EU (SEVESO III):				
Additional information				
This preparation is hazardous in the	sense of regulation (EC) No 1272/2008 [GHS].			
National regulatory information				
Water hazard class (D):	2 - obviously 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 ethylenediami	netetraacetate			
Sodium hydroxide				
SECTION 16: Other information				

# Changes

This data sheet contains changes from the previous version in section(s): 2,3,7,9,11,12,14,15,16. Rev. 2,0; 15.05.2023; Recreation from collect\_SDB 13412.xxxxx



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### Abbreviations and acronyms

Met. Corr: Corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation STOT RE: Specific target organ toxicity - repeated exposure 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

# Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	
Eye Irrit. 2; H319	
STOT RE 2; H373	Calculation method

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

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.



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H373

May cause damage to organs through prolonged or repeated exposure.

# **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.

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