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## **Safety Data Sheet**

#### according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 28, 2020

#### 1 Identification

· Product identifier

Trade name: EDTA Titrant,0.8M

· Product code: ED2180SS

· Recommended use and restriction on use

· Recommended use: Laboratory chemicals

Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331 USA

Tel +1 (717)632-1291

Toll-Free: (866)632-1291

info@aquaphoenixsci.com

· Distributor:

AquaPhoenix Scientific

860 Gitts Run Road,

Hanover, PA 17331

(717) 632-1291

· Emergency telephone number:

ChemTel Inc.

(800)255-3924 (North America)

+1 (813)248-0585 (International)

## 2 Hazard(s) identification

#### · Classification of the substance or mixture

Met. Corr.1 H290 May be corrosive to metals.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

STOT RE 2 H373 May cause damage to the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

- Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:







**GHS05 GHS07 GHS08** 

- · Signal word: Danger
- Hazard statements:

H290 May be corrosive to metals.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

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H373 May cause damage to the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

#### Precautionary statements:

P234 Keep only in original container.
P260 Do not breathe mist/vapors/spray.
P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.
P314 Get medical advice/attention if you feel unwell.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:			
7732-18-5	Water	60-80%	
	Disodium dihydrogen ethylenediaminetetraacetate STOT RE 2, H373 Acute Tox. 4, H332	20-40%	
1310-73-2	Sodium hydroxide  Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	<5%	
7791-18-6	Magnesium chloride hexahydrate	<5%	

#### Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

#### 4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate help for blistering or open wounds.

· After eye contact:

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Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Strong caustic effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

· Danger:

Danger of gastric perforation.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed:

No relevant information available.

## 5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

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- · Handling
- Precautions for safe handling:

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Avoid contact with the eyes and skin.

- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: glass or ceramic.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

- Further information about storage conditions: Keep containers tightly sealed.
- · Specific end use(s) No relevant information available.

## 8 Exposure controls/personal protection

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

1310-73-2 Sodium hydroxide				
PEL (USA)	Long-term value: 2 mg/m³			
REL (USA)	Ceiling limit value: 2 mg/m³			
TLV (USA)	Ceiling limit value: 2 mg/m³			
EL (Canada)	Ceiling limit value: 2 mg/m³			
EV (Canada)	Ceiling limit value: 2 mg/m³			
LMPE (Mexico)	Ceiling limit value: 2 mg/m³			

#### • Exposure controls

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Engineering controls:** Provide adequate ventilation.
- Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device when high concentrations are present.

Protection of hands:

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## Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment No relevant information available.
- · Risk management measures No relevant information available.

Information on basic physical a	and chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Colorless Not determined.	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	>12	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	105-110 °C (221-166 °F)	
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure:	Not determined.	
Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	

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Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity

**Dynamic:** Not determined. **Kinematic:** Not determined.

• Other information No relevant information available.

## 10 Stability and reactivity

- · **Reactivity:** No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions

Strong exothermic reaction with acids.

Corrosive action on metals.

Attacks materials containing glass and silicate.

Reacts with strong oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

- · Conditions to avoid Excessive heat.
- Incompatible materials

Metals.

Strong acids

Oxidizing agents.

· Hazardous decomposition products

Under fire conditions only:

Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

## 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

#### 6381-92-6 Disodium dihydrogen ethylenediaminetetraacetate

Oral LD50 2800 mg/kg (rat)

- Primary irritant effect:
- On the skin: Strong caustic effect on skin and mucous membranes.
- · On the eye: Strong caustic effect.
- · Sensitization: Based on available data, the classification criteria are not met.
- IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

#### · NTP (National Toxicology Program):

None of the ingredients are listed.

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· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: 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 the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

· Aspiration hazard: Based on available data, the classification criteria are not met.

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- Additional ecological information
- General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · Other adverse effects No relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

## **14 Transport information**

· UN-Number

· DOT, ADR/RID/ADN, IMDG, IATA UN1824

· UN proper shipping name

· DOT, IATA Sodium hydroxide solution

ADR/RID/ADN, IMDG SODIUM HYDROXIDE SOLUTION

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Transport hazard class(es)	
· DOT	
COSSISSION .	
· Class	8
· Label	8
· ADR/RID/ADN	
· Class	8 (C5)
· Label	8
· IMDG, IATA	
· Class	8
· Label	8
· Packing group · DOT, ADR/RID/ADN, IMDG, IATA	II
· Environmental hazards · Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	80
· EMS Number: · Segregation groups	F-A,S-B Alkalis
Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code	Not applicable.

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

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None of the ingredients are listed.

TSCA (Toxic Substances Control Act)

1310-73-2 Sodium hydroxide

7732-18-5 Water

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

#### · Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

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Trade name: EDTA Titrant,0.8M

Safety Data Sheets, Individual Manufacturers

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