

according to Regulation (EC) No 1907/2006

## 20434 TitraVer Hardness Reagent 500g

Revision date: 04.02.2020

Product code: 20434

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

## 1.1. Product identifier

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Substance name:	Ethylenedinitrilotetraacetic acid disodium salt dihydrate
CAS No:	6381-92-6
EC No:	205-358-3

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

## Use of the substance/mixture

Water analysis

1.3. Deta	ils of the suppl	lier of the safet	y data sheet

Company name:	HACH LANGE GmbH
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HACH LANGE Ltd. Unit 1, Chestnut Road Western Industrial Estate **IRL-Dublin 12** Tel. +353 (0)1 4602522 e-Mail: info-ie@hach.com 1.4. Emergency telephone Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

number:

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories: Acute toxicity: Acute Tox. 4 Specific target organ toxicity - repeated exposure: STOT RE 2 Hazard Statements: Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.

## 2.2. Label elements

#### Regulation (EC) No. 1272/2008

Signal word:

## **Pictograms:**



**Hazard statements** H332

Harmful if inhaled.

Warning



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May cause damage to organs through prolonged or repeated exposure.

## Precautionary statements

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P501	Dispose of contents/container to

#### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

## 2.3. Other hazards

None known.

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

#### Hazardous components

CAS No	Chemical name			Quantity		
	EC No Index No REACH No					
	GHS Classification					
6381-92-6	Ethylenedinitrilotetraacetic acid disodium salt dihydrate			100 %		
	205-358-3					
	Acute Tox. 4, STOT RE 2; H332 H373					

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

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### General information

Take off all contaminated clothing immediately.

Show this safety data sheet to the doctor in attendance.

### After inhalation

Move to fresh air.

## After contact with skin

Wash off with soap and water. If skin irritation persists, call a physician.

#### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

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

No known effect.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media



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## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

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

Fire may liberate hazardous vapours.

## 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

## Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

## Use personal protective equipment.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 6.4. Reference to other sections

13. Disposal considerations

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Do not breathe vapours/dust.

#### Advice on protection against fire and explosion

See also section 5

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

#### Requirements for storage rooms and vessels

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

## Hints on joint storage

Do not store together with Strong oxidizing agents

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

Reagent for analysis

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Additional advice on limit values

None known.

#### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

#### Protective and hygiene measures

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



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Wash hands before breaks and after work.

## Eye/face protection

Safety glasses with side-shields

## Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

#### Skin protection

Remove and wash contaminated clothing before re-use.

#### **Respiratory protection**

Breathing apparatus only if aerosol or dust is formed.

## **SECTION 9: Physical and chemical properties**

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

I. Information on basic physical and cher Physical state: Colour:	crystalline white		
Odour:	odourless		
pH-Value (at 20 °C):			5,3 (5 % solution)
Changes in the physical state			
Melting point:		252	(Decomposition temperature) °C
Initial boiling point and boiling range:			not applicable
Sublimation point:			not applicable
Softening point:			not applicable
Pour point:			not applicable
:			no data available
Flash point:			not applicable
Sustaining combustion:			No data available
Flammability Solid:			nat annliachta
Gas:			not applicable not applicable
			not applicable
Explosive properties not applicable			
Lower explosion limits:			not applicable
Upper explosion limits:			not applicable
Ignition temperature:			no data available
Auto-ignition temperature			
Solid:			not applicable
Gas:			not applicable
Decomposition temperature:			no data available
Oxidizing properties not applicable			
Vapour pressure:			no data available
Vapour pressure:			no data available
Density (at 20 °C):			no data available
Bulk density:			not applicable



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Water solubility: (at 20 °C)	soluble						
Solubility in other solvents no data available							
Partition coefficient:	no data available						
Viscosity / dynamic:	no data available						
Viscosity / kinematic:	no data available						
Flow time:	no data available						
Vapour density:	no data available						
Evaporation rate:	no data available						
Solvent separation test:	no data available						
Solvent content:	no data available						
9.2. Other information							
Solid content:	not applicable						
no data available							

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

See also section 10.3

## 10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

## 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

## 10.5. Incompatible materials

Oxidizing agents

## 10.6. Hazardous decomposition products

nitrogen oxides (NOx) Carbon oxides

## **Further information**

Stable under recommended storage conditions.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

LD50/oral/rat = 2000 mg/kg

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
6381-92-6	Ethylenedinitrilotetraacetic acid disodium salt dihydrate					
	oral	LD50 >2000 mg/kg	rat			
	inhalation vapour	ATE 11 mg/l				
	inhalation aerosol	ATE 1,5 mg/l				



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## Irritation and corrosivity

No known effect.

# Sensitising effects

Contains no substance or substances classified as sensitising.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

#### STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## Aspiration hazard

No aspiration toxicity classification

## Additional information on tests

no data available

#### Practical experience

#### Observations relevant to classification

no data available

# Other observations

no data available

## **Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

CAS No	Chemical name						
	Aquatic toxicity Dose			[h]   [d]	Species	Source	Method
6381-92-6	Ethylenedinitrilotetraacetic acid disodium salt dihydrate						
	Acute fish toxicity	LC50	320 mg/l		Poecilia reticulata (guppy)	IUCLID	
	Acute algae toxicity	ErC50 mg/l	10-100	72 h			

#### 12.2. Persistence and degradability

No data is available on the product itself.

#### 12.3. Bioaccumulative potential

No data is available on the product itself.

### 12.4. Mobility in soil

no data available

## 12.5. Results of PBT and vPvB assessment

no data available

# 12.6. Other adverse effects

No known effect.

# Further information

no data available

## **SECTION 13: Disposal considerations**



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## 13.1. Waste treatment methods

## **Disposal recommendations**

In accordance with local and national regulations.

## 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

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

#### Contaminated packaging

Dispose of as unused product.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

## Other applicable information (land transport)

Not subject to transport regulations.

### Inland waterways transport (ADN)

Other applicable information (inland waterways transport) Not tested

#### Marine transport (IMDG)

## Other applicable information (marine transport)

Not subject to transport regulations.

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

#### Other applicable information (air transport)

Not subject to transport regulations.

## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

## 14.6. Special precautions for user

no data available

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

#### Other applicable information

no data available

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## EU regulatory information

#### Additional information

Classification according to EU Directives 67/548/EEC or 1999/45/EC The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.



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## National regulatory information

Employment restrictions:

Water hazard class (D):

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). 2 - obviously hazardous to water

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

## Changes

Revision Date 10.04.2015 Safety datasheet sections which have been updated: 2

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

## H332 Harmful if inhaled.

May cause damage to organs through prolonged or repeated exposure.

### **Further Information**

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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.