

# according to Regulation (EC) No 1907/2006

## sera Ca Test, Reagenz 1

Revision date: 05.09.2023

Product code: Ca-R1

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

## 1.1. Product identifier

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## EAN

4001942040044 4001942049207

UFI:

#### 7S5M-WA2P-CG3E-6WKX

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

#### Use of the substance/mixture

Solution for monitoring water parameters in aquarium and tap water. The product is intended for consumer use. The product is intended for professional use.

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

Company name:	sera Werke Heimtierbedarf	
	J. Ravnak GmbH & Co. KG	
Street:	Borsigstraße 49	
Place:	D-52525 Heinsberg	
Post-office box:	1466	
	D-52518 Heinsberg	
Telephone:	+49 (0)2452 91260	Telefax: +49 (0)2452 5922
e-mail:	info@sera.de	
Contact person:	Dr. Matthias Dahm	
e-mail:	sds.info@sera.biz	
Internet:	www.sera.de	
Responsible Department:	Labor	
1.4. Emergency telephone	+49 (0)2452 91260 (Only available	e during office hours.)
<u>number:</u>	+49 (0)2452 9126555	

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Skin Corr. 1A; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## Regulation (EC) No 1272/2008

Hazard components for labelling sodium hydroxide; caustic soda

Signal word:

Pictograms:





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## Hazard statements

H314

Causes severe skin burns and eye damage.

#### Precautionary statements

P102	Keep out of reach of children.
P280	Wear protective gloves and eye/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water or shower.
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 doctor.

#### Additional advice on labelling

The product is classified and labelled according to EC directives or corresponding national laws.

#### 2.3. Other hazards

No information available.

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

#### 3.2. Mixtures

#### **Chemical characterization**

Product/Substance is inorganic. Solution of sodium hydroxide in water.

## Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
1310-73-2	sodium hydroxide; caustic soda			20 - < 25 %
	215-185-5	011-002-00-6	01-2119457892-27	
	Met. Corr. 1, Skin Corr. 1A; H290 H314			

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

Specific Conc. Limits, M-factors and ATE			
CAS No	No EC No Chemical name		Quantity
	Specific Conc. Limits, M-factors and ATE		
1310-73-2	215-185-5	sodium hydroxide; caustic soda	20 - < 25 %
	,	l314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < H319: >= 0,5 - < 2	

#### **Further Information**

Strong alkali.

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

#### 4.1. Description of first aid measures

### **General information**

Remove contaminated, saturated clothing immediately.

#### After inhalation

Provide fresh air. After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.

## After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.



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### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Rinse mouth immediately and drink plenty of water. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

Serious eye damage/eye irritation

Skin corrosion/irritation

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Subsequent observance for pneumonia and lung oedema.

#### 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.

#### Unsuitable extinguishing media

no restriction

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

Non-flammable. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Fire fighting water forms corrosive alkaline solutions - slip hazard!

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

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

#### General advice

Provide adequate ventilation. Do not breathe vapour. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### For non-emergency personnel

First aider: Pay attention to self-protection! Remove persons to safety.

#### For emergency responders

Cover drains. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. The product is an alkali. Before discharge into sewage plants the product normally needs to be neutralised. Suitable material for diluting or neutralizing: Water, Hydrochloric acid, Sulphuric acid and sulphurous acid.

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

## For containment

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Contain leaks or spills within cabinets with removable trays.



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#### For cleaning up

Large amounts of spillages: Use approved industrial vacuum cleaner for removal. Small amounts of spillages: Wipe up with absorbent material (eg. cloth, fleece). Clear contaminated areas thoroughly. Wash with plenty of water.

#### Other information

Treat the recovered material as prescribed in the section on waste disposal.

## 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

Do not breathe vapour. Keep out of reach of children.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

### Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product. Wash hands and face before breaks and after work and take a shower if necessary. Draw up and observe skin protection programme.

#### Further information on handling

Handle and open container with care. Put lids on containers immediately after use.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Keep/Store only in original container.

Do not store at temperatures below 0°C. Recommended storage temperature: at room temperature

## Hints on joint storage

Do not store near acids.

#### Further information on storage conditions

No special measures are necessary. The product is stable under storage at normal ambient temperatures.

## 7.3. Specific end use(s)

Solution for monitoring water parameters in aquarium and tap water.

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

### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	

#### Additional advice on limit values

To date, no national critical limit values exist. When using do not eat, drink, smoke, sniff.

#### 8.2. Exposure controls



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## Appropriate engineering controls

No special technical protective measures are necessary.

Individual protection measures, such as personal protective equipment

## Eye/face protection

Avoid contact with eyes. Wear eye/face protection. Suitable eye protection: goggles.

### Hand protection

Avoid contact with skin. Wear suitable gloves.

Suitable gloves type: alkali-resistant

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,2-0,3 mm

Permeation time (maximum wear duration): > 8 h

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.

#### Skin protection

Wear suitable protective clothing. Not required because of small size of the container

## **Respiratory protection**

Usually no personal respirative protection necessary. In case of inadequate ventilation wear respiratory protection. In the case of vapour formation use a respirator with filter model B2 (according to DIN 3181, 1980).

#### Thermal hazards

Non-flammable. The product itself does not burn. Thermal decomposition can lead to the escape of irritating gases and vapours.

### Environmental exposure controls

Avoid release to the environment.

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

## 9.1. Information on basic physical and chemical properties

•	I. Information on pasic physical and cher		
	Physical state:	Liquid	
	Colour:	colourless	
	Odour:	odourless	
	Odour threshold:	not applicable	
	Melting point/freezing point:		0°C
	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:		> 100 °C
	Auto-ignition temperature:		not determined
	Decomposition temperature:		not determined
	pH-Value (at 20 °C):		13-14
	Viscosity / kinematic:		not determined
	Water solubility:		completely miscible
	(at 20 °C)		
	Solubility in other solvents		
	not determined		
	Partition coefficient n-octanol/water:		not determined
	Vapour pressure:		< 24 hPa
	(at 20 °C)		



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Density (at 20 °C):	1,12 g/cm³		
Bulk density:	not applicable		
Relative vapour density:	not determined		
9.2. Other information			
Information with regard to physical hazard o	classes		
Explosive properties			
No ignition, explosion, self-heating or visib	le decomposition.		
The product is not: Explosive			
Sustaining combustion:	Not sustaining combustion		
Self-ignition temperature			
Solid:	not applicable		
Gas:	not applicable		
Oxidizing properties			
Not oxidising.			
Other safety characteristics			
Evaporation rate:	not determined		
Solvent separation test:	No data available		
Solvent content:	not determined		
Solid content:	not determined		
Sublimation point:	not applicable		
Softening point:	not applicable		
Pour point:	not determined		
Viscosity / dynamic:	not determined		
Flow time:	not determined		

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

#### 10.1. Reactivity

Possibility of hazardous reactions. During dilution or dissolving in water, strong heating-up always takes place.

## 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Peroxides, Oxidising agent. The product develops hydrogen in an aqueous solution in contact with metals. No hazardous reaction when handled and stored according to provisions.

#### 10.4. Conditions to avoid

Protect from direct sunlight.

## 10.5. Incompatible materials

Keep away from: Acid, Oxidising agent, Peroxides. Alkali metals, Light metals, Ammonium salts

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Toxicocinetics, metabolism and distribution

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

### Acute toxicity

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

#### Irritation and corrosivity



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Causes severe skin burns and eye damage.

Causes serious eye damage.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

#### 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.

## Information on likely routes of exposure

Skin contact, Eye contact, Ingestion, Inhalation

#### Specific effects in experiment on an animal

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

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### Practical experience

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

### 11.2. Information on other hazards

### Endocrine disrupting properties

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

#### Other information

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

#### Further information

Handle in accordance with good industrial hygiene and safety practice. Health injuries are not known or expected under normal use.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

The product is an alkali. Before discharge into sewage plants the product normally needs to be neutralised. Suitable material for diluting or neutralizing: Water, Hydrochloric acid, Sulphuric acid and sulphurous acid. After neutralisation, toxicity is no longer observed.

## 12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3. Bioaccumulative potential

The study does not need to be conducted because the substance is inorganic.

## 12.4. Mobility in soil

The study does not need to be conducted because the substance is inorganic.

### 12.5. Results of PBT and vPvB assessment

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

## 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.



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#### **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. The product is an alkali. Before discharge into sewage plants the product normally needs to be neutralised. Suitable material for diluting or neutralizing: Water, Hydrochloric acid, Sulphuric acid and sulphurous acid.

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

160303 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160507 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded inorganic chemicals consisting of or containing hazardous substances; 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

Wash with plenty of water. Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C5
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C5
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE, SOLUTION
14.3. Transport hazard class(es):	8



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14.4. Packing group:	II	
Hazard label:	8	
Special Provisions:	-	
Limited quantity:	1 L	
Excepted quantity:	E2	
EmS:	F-A, S-B	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 1824	
14.2. UN proper shipping name:	SODIUM HYDROXIDE, SOLUTION	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8	
Special Provisions:	A3 A803	
Limited quantity Passenger:	0.5 L	
Passenger LQ:	Y840	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:	851	
IATA-max. quantity - Passenger:	1 L	
IATA-packing instructions - Cargo:	855	
IATA-max. quantity - Cargo:	30 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user Warning: strongly corrosive. Safe hand Personal pretection equipment: see se	-	
Warning: strongly corrosive. Safe hand Personal protection equipment: see se 14.7. Maritime transport in bulk according to	ection 8	
Warning: strongly corrosive. Safe hand Personal protection equipment: see se 14.7. Maritime transport in bulk according to not applicable	ection 8	
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<ul> <li>Warning: strongly corrosive. Safe hand Personal protection equipment: see see</li> <li>14.7. Maritime transport in bulk according to not applicable</li> <li>SECTION 15: Regulatory information</li> <li>15.1. Safety, health and environmental regulatory information</li> <li>Restrictions on use (REACH, annex XVII): Entry 3, Entry 75</li> <li>Information according to 2012/18/EU (SEVESO III):</li> <li>Additional information To follow: 850/2004/EC, 79/117/EEC, 0</li> <li>National regulatory information</li> <li>Employment restrictions:</li> </ul>	a IMO instruments         Ilations/legislation specific for the substance or mixture         Not subject to 2012/18/EU (SEVESO III)         689/2008/EC         Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	e
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## Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)



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IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

## Key literature references and sources for data

Safety Data Sheet, ECHA

### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	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.
H318	Causes serious eye damage.

#### **Further Information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]. 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 receiver of our product is singularly responsible for adhering to existing laws and regulations.

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



## according to Regulation (EC) No 1907/2006

## sera Ca Test, Reagenz 2

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

### 1.1. Product identifier

sera Ca Test, Reagenz 2

### EAN

4001942040044 4001942049207

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

#### Use of the substance/mixture

Solid for monitoring water parameters in aquarium and tap water. The product is intended for consumer use. The product is intended for professional use.

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

sera Werke Heimtierbedarf	
J. Ravnak GmbH & Co. KG	
Borsigstraße 49	
D-52525 Heinsberg	
1466	
D-52518 Heinsberg	
+49 (0)2452 91260	Telefax: +49 (0)2452 5922
info@sera.de	
Dr. Matthias Dahm	
sds.info@sera.biz	
www.sera.de	
Labor	
+49 (0)2452 91260 (Only available during o	ffice hours.)
+49 (0)2452 9126555	
	J. Ravnak GmbH & Co. KG Borsigstraße 49 D-52525 Heinsberg 1466 D-52518 Heinsberg +49 (0)2452 91260 info@sera.de Dr. Matthias Dahm sds.info@sera.biz www.sera.de Labor +49 (0)2452 91260 (Only available during o

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008. Voluntary safety information following the Safety Data Sheet format according to Regulation (EC) No. 1907/2006 (REACH).

## 2.2. Label elements

## Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

#### 2.3. Other hazards

No information available.

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

## 3.2. Mixtures

## Chemical characterization

Mixture of inorganic salts with organic substances.



according to Regulation (EC) No 1907/2006

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#### Hazardous components

none (according to Regulation (EC) No 1907/2006 (REACH))

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

#### 4.1. Description of first aid measures

#### **General information**

Brush off contaminated clothing.

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a doctor if you feel unwell.

#### 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.

#### Unsuitable extinguishing media

no restriction

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

Non-flammable. In case of fire may be liberated: Sulphur oxides, Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO2).

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 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**

Do not breathe dust. Avoid contact with skin, eyes and clothes.

#### For non-emergency personnel

First aider: Pay attention to self-protection! Remove persons to safety.

#### For emergency responders

Use personal protection equipment.

#### 6.2. Environmental precautions

No special environmental measures are necessary.

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



according to Regulation (EC) No 1907/2006

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## For containment

Take up mechanically, placing in appropriate containers for disposal.

## For cleaning up

Large amounts of spillages: Use approved industrial vacuum cleaner for removal.

Small amounts of spillages: Take up mechanically.

Clear contaminated areas thoroughly. Clean contaminated articles and floor according to the environmental

legislation.

## Other information

Treat the recovered material as prescribed in the section on waste disposal.

## 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

Keep out of reach of children. Avoid dust formation. Do not breathe dust.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Take off contaminated clothing. Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

#### Further information on handling

Handle and open container with care. Put lids on containers immediately after use.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep container dry. Keep/Store only in original container. Moisture-sensitive. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Protect from direct sunlight.

Recommended storage temperature: at room temperature.

#### Hints on joint storage

No materials to be specially mentioned

### Further information on storage conditions

No special measures are necessary. The product is stable under storage at normal ambient temperatures.

### 7.3. Specific end use(s)

Solid for monitoring water parameters in aquarium and tap water.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist. When using do not eat, drink, smoke, sniff.

#### 8.2. Exposure controls

#### Appropriate engineering controls

No special technical protective measures are necessary.

## Individual protection measures, such as personal protective equipment



according to Regulation (EC) No 1907/2006

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## Eye/face protection

Avoid contact with skin, eyes and clothes.

Eye protection: not required.

# Hand protection

Hand protection is not required.

#### Skin protection

Body protection: not required.

## **Respiratory protection**

Usually no personal respirative protection necessary. In case of inadequate ventilation wear respiratory protection.

#### **Thermal hazards**

Non-flammable. Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Sulphur oxides, Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO2).

## **Environmental exposure controls**

Avoid release to the environment.

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

## 9.1. Information on basic physical and chemical properties

Physical state:	solid	
Colour:	violet	
Odour:	odourless	
Odour threshold:	not applicable	
Melting point/freezing point:		800 °C
Boiling point or initial boiling point and		890 °C
boiling range:		
Flammability:		Non-flammable.
		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		does not flash
Auto-ignition temperature:		No data available
Decomposition temperature:		not determined
pH-Value:		not applicable
Viscosity / kinematic:		not applicable
Water solubility:		easily soluble
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not applicable
Vapour pressure:		not determined
Density:		2,70 g/cm <sup>3</sup>
Bulk density:		not determined
Relative vapour density:		not determined
9.2. Other information		
Information with regard to physical haz	ard classes	
Explosive properties		
No ignition, explosion, self-heating or	visible decomposition.	
Sustaining combustion:		Not sustaining combustion
Self-ignition temperature		
Solid:		not determined
Gas:		not applicable



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Oxidizing properties Not oxidising.					
Other safety characteristics					
Evaporation rate:	not determined				
Solvent separation test:	No data available				
Solvent content:	0 %				
Solid content:	100,00 %				
Sublimation point:	No data available				
Softening point:	not applicable				
Pour point:	not applicable				
Viscosity / dynamic:	not applicable				

not applicable

Flow time:

SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Protect from direct sunlight. Moisture-sensitive.

## 10.5. Incompatible materials

Air, humid

#### 10.6. Hazardous decomposition products

Sulphur oxides, Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO2). Thermal decomposition can lead to the escape of irritating gases and vapours.

### **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Toxicocinetics, metabolism and distribution

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

#### Acute toxicity

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

### 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.

#### Information on likely routes of exposure

Skin contact, Eye contact, Ingestion, Inhalation



according to Regulation (EC) No 1907/2006

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## Specific effects in experiment on an animal

Mild eye irritation (Rabbit)

#### Additional information on tests

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

#### Practical experience

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

## 11.2. Information on other hazards

Endocrine disrupting properties

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

#### Other information

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

#### Further information

Handle in accordance with good industrial hygiene and safety practice. Health injuries are not known or expected under normal use.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

There are no data available on the preparation/mixture itself. According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment". Ecological injuries are not known or expected under normal use.

#### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

#### 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 REACH, annex XIII.

## 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. No special environmental measures are necessary.

#### **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.

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

160304 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes other than those mentioned in 16 03 03

## 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



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### List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

#### Contaminated packaging

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

#### **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Inland waterways transport (ADN) 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. No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): 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. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 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. 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. No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): 14.4. Packing group: No dangerous good in sense of this transport regulation. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user

# No information available.

14.7. Maritime transport in bulk according to IMO instruments not applicable

### **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)
Additional information	
The mixture is classified as not haza	rdous according to regulation (EC) No 1272/2008 [CLP].
National regulatory information	
Water hazard class (D):	2 - obviously hazardous to water
15.2. Chemical safety assessment	
Chemical safety assessments for su	bstances in this mixture were not carried out.

## **SECTION 16: Other information**



## according to Regulation (EC) No 1907/2006

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### Changes

This data sheet contains changes from the previous version in section(s): 2.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

## Key literature references and sources for data

Safety Data Sheet, ECHA

### **Further Information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]. 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 receiver of our product is singularly responsible for adhering to existing laws and regulations.

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



## according to Regulation (EC) No 1907/2006

## sera Ca Test, Reagenz 3

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Product code: Ca-R3

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

## 1.1. Product identifier

sera Ca Test, Reagenz 3

### EAN

4001942040044 4001942049207 4001942049221

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

### Use of the substance/mixture

Solution for monitoring water parameters in aquarium and tap water. The product is intended for consumer use. The product is intended for professional use.

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

arf
ΚG
Telefax: +49 (0)2452 5922
/ available during office hours.)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

#### 2.2. Label elements

#### Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

## 2.3. Other hazards

No information available.

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

## 3.2. Mixtures

# Chemical characterization

Aqueous solution of organic and inorganic salts.



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### Hazardous components

CAS No	Chemical name			Quantity		
	EC No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)					
6381-92-6	ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium)			< 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 Co	nc. Limits, M-f	actors and ATE	
CAS No	EC No	Chemical name	Quantity
	Specific Con	c. Limits, M-factors and ATE	
6381-92-6	205-358-3	ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium)	< 5 %
	inhalation: A 2800 mg/kg	TE = 11 mg/l (vapours); inhalation: LC50 = 1,6 mg/l (dusts or mists); oral: LD50 =	

#### **Further Information**

Contains no further substance with acute toxicity.

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

### 4.1. Description of first aid measures

#### **General information**

Remove contaminated, saturated clothing immediately.

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

## After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a doctor if you feel unwell.

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

No known symptoms to date.

### 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.

### Unsuitable extinguishing media

no restriction

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

Non-flammable. The product itself does not burn. In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO2).

## 5.3. Advice for firefighters



according to Regulation (EC) No 1907/2006

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Wear a self-contained breathing apparatus and chemical protective clothing.

#### Additional information

Suppress gases/vapours/mists with water spray jet. 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**

Avoid contact with skin, eyes and clothes.

#### For non-emergency personnel

First aider: Pay attention to self-protection! Remove persons to safety.

#### For emergency responders

Cover drains. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Contain leaks or spills within cabinets with removable trays.

#### For cleaning up

Large amounts of spillages: Use approved industrial vacuum cleaner for removal. Small amounts of spillages: Wipe up with absorbent material (eg. cloth, fleece). Clear contaminated areas thoroughly. Wash with plenty of water.

#### Other information

Treat the recovered material as prescribed in the section on waste disposal.

#### 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

Keep out of reach of children.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

#### Further information on handling

Handle and open container with care. Put lids on containers immediately after use.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Keep/Store only in original container. Protect from direct sunlight.

Do not store at temperatures below 0°C. Recommended storage temperature: at room temperature.

#### Hints on joint storage

No materials to be specially mentioned



## according to Regulation (EC) No 1907/2006

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### Further information on storage conditions

No special measures are necessary. The product is stable under storage at normal ambient temperatures.

## 7.3. Specific end use(s)

Solution for monitoring water parameters in aquarium and tap water.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

## DNEL/DMEL values

CAS No	Substance						
DNEL type	NEL type Exposure route Effect Value						
6381-92-6	ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium)						
Worker DNEL,	Worker DNEL, long-term inhalation local 1,5 mg/m <sup>3</sup>						
Worker DNEL,	acute	inhalation	local	3 mg/m³			

## **PNEC** values

CAS No	Substance				
Environmental compartment Value					
6381-92-6	ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium)				
Freshwater 2,2 mg/l					
Marine water	Marine water 0,22 mg/l				
Micro-organism	43 mg/l				

#### Additional advice on limit values

To date, no national critical limit values exist. When using do not eat, drink, smoke, sniff.

### 8.2. Exposure controls

#### Appropriate engineering controls

No special technical protective measures are necessary.

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

#### Eye/face protection

Avoid contact with eyes. Suitable eye protection: goggles. not required under normal use.

## Hand protection

Avoid contact with skin. Hand protection is not required..

## Skin protection

Body protection: not required.

### **Respiratory protection**

Usually no personal respirative protection necessary.

#### Thermal hazards

Non-flammable. The product itself does not burn. Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO2).

### Environmental exposure controls

Avoid release to the environment.

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

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

Physical state:

Liquid



## according to Regulation (EC) No 1907/2006

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Colour:	colourless	
Odour:	odourless	
Odour threshold:	not applicable	
Melting point/freezing point:		0°C
Boiling point or initial boiling point and	1	<b>D° 00</b>
boiling range:		
Flammability:	Non-flamm	able.
	not appli	icable
Lower explosion limits:	not deterr	mined
Upper explosion limits:	not deterr	mined
Flash point:	> 1	0° 00
Auto-ignition temperature:	Non-flamn	
Decomposition temperature:	not deterr	
pH-Value (at 20 °C):		4-5
,		
Viscosity / kinematic:	not deterr	
Water solubility:	completely mi	scible
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not appli	
Vapour pressure:	2	3 hPa
(at 20 °C)		
Vapour pressure:	not deterr	
Density:		g/cm <sup>3</sup>
Bulk density:	not appli	
Relative vapour density:	not deterr	
Particle characteristics: 2. Other information	not appli	ICADIE
Information with regard to physical	hazard classes	
Explosive properties		
No ignition, explosion, self-heating	g or visible decomposition.	
The product is not: Explosive		
Sustaining combustion:	Not sustaining combi	ustion
Self-ignition temperature		
Solid:	not appli	icable
Gas:	not appli	icable
Oxidizing properties		
Not oxidising.		
Other safety characteristics		
· · · · · · · · · · · · · · · · · · ·	not deterr	mined
Evaporation rate:		
Evaporation rate: Solvent separation test:	No data ava	ailable
Solvent separation test:	No data ava not deterr	
•	not deterr	mined
Solvent separation test: Solvent content: Solid content:	not deterr not deterr	mined mined
Solvent separation test: Solvent content: Solid content: Sublimation point:	not deterr not deterr not appli	mined mined icable
Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point:	not deterr not deterr	mined mined icable icable
Solvent separation test: Solvent content: Solid content: Sublimation point:	not deterr not deterr not appli not appli	mined mined icable icable mined

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2. Chemical stability



according to Regulation (EC) No 1907/2006

## sera Ca Test, Reagenz 3

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The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Protect from direct sunlight.

#### 10.5. Incompatible materials

none

#### 10.6. Hazardous decomposition products

Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO2). Thermal decomposition can lead to the escape of irritating gases and vapours.

#### **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Toxicocinetics, metabolism and distribution

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

#### Acute toxicity

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

#### ATEmix calculated

ATE (inhalation vapour) 492,57 mg/l; ATE (inhalation dust/mist) 71,646 mg/l

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
6381-92-6	ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium)							
	oral	LD50 mg/kg	2800	Rat	ECHA	OECD 401		
	inhalation vapour	ATE	11 mg/l					
	inhalation (4 h) dust/mist	LC50	1,6 mg/l	Rat	SDS	OECD 412		

#### 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.

### Information on likely routes of exposure

Skin contact, Eye contact, Ingestion, Inhalation

### Specific effects in experiment on an animal

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

### Additional information on tests

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



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## **Practical experience**

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

# 11.2. Information on other hazards

## Endocrine disrupting properties

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

#### Other information

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

#### Further information

Handle in accordance with good industrial hygiene and safety practice. Health injuries are not known or expected under normal use.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

There are no data available on the preparation/mixture itself. According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment". Ecological injuries are not known or expected under normal use.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
6381-92-6	ethylenediaminetetraacet	ic acid disod	dium salt dihy	drate (E	DTA disodium)		
	Acute fish toxicity	LC50	41 mg/l	96 h	Lepomis macrochirus (Bluegill)	SDS	
	Acute algae toxicity	ErC50 mg/l	> 60	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50	140 mg/l	48 h	Daphnia magna (Big water flea)	SDS	DIN 38412 / part 11
	Fish toxicity	NOEC mg/l	> 25,7	35 d	Danio rerio (zebrafish)	SDS	OECD 210
	Crustacea toxicity	NOEC mg/l	> 25	21 d	Daphnia magna (Big water flea)	SDS	
	Acute bacteria toxicity	(EC50 mg/l)	> 640	3 h	Activated sludge	SDS	OECD 209

## 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	ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium)	-4,3

BCF

BCF					
CAS No	Chemical name	BCF	Species	Source	
6381-92-6	ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium)	1,8	Lepomis macrochirus (Bluegill)	SDS	

### 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 REACH, annex XIII.



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## 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.

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

161001 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; aqueous liquid wastes destined for off-site treatment; aqueous liquid wastes containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; 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

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

#### 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) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number:

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

14.5. Environmental hazards

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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ENVIRONMENTALLY HAZARDOUS:	No			
14.6. Special precautions for user				
No information available.				
14.7. Maritime transport in bulk according to IMO instruments				
not applicable				
SECTION 15: Regulatory information				
15.1. Safety, health and environmental r	egulations/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)			
Additional information				
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].				
National regulatory information				
Water hazard class (D):	1 - slightly hazardous to water			
15.2. Chemical safety assessment				
5	s mixture a chemical safety assessment has been carried out: sodium salt dihydrate (EDTA disodium)			
SECTION 16: Other information				
Changes				
This data sheet contains changes from the previous version in section(s): 2,4,5,7,8,9,12,15,16.				

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

## Key literature references and sources for data

Safety Data Sheet, ECHA

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

H332	Harmful if inhaled.
H373	May cause damage to organs (Respiratory tract) through prolonged or repeated exposure
	if inhaled.

### **Further Information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]. 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 receiver of our product is singularly responsible for adhering to existing laws and regulations.



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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.)