



according to Regulation (EC) No 1907/2006

# 21194-49 Nessler Reagent

Revision date: 28.04.2017 Product code: 2119449 Page 1 of 9

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

### 1.1. Product identifier

21194-49 Nessler Reagent

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

### Use of the substance/mixture

Water analysis

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

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach.com
Internet: www.de.hach.com
Responsible Department: HACH LANGE Ltd.
5, Pacific Way

Salford Manchester M50 1DL - United Kingdom Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324

e-Mail: info-uk@hach.com

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

number: service -

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

#### 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Acute toxicity: Acute Tox. 3

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Acute 1 Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

May be corrosive to metals.

Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

Causes severe skin burns and eye damage.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

### Hazard components for labelling

sodium hydroxide; caustic soda

Mercury(II) iodide





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Signal word: Danger

Pictograms:







#### **Hazard statements**

H290 May be corrosive to metals.

H301 Toxic if swallowed.
H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

### **Precautionary statements**

P234 Keep only in original packaging.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/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.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P310 Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

### Additional advice on labelling

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

### 2.3. Other hazards

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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

### 3.2. Mixtures



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#### **Hazardous components**

CAS No	Chemical name	Chemical name				
	EC No	Index No	REACH No			
	Classification according to Regulati	ion (EC) No. 1272/2008 [CLP]				
7732-18-5	Water	Water				
	231-791-2					
		•				
1310-73-2	sodium hydroxide; caustic soda		10-20 %			
	215-185-5	011-002-00-6				
	Skin Corr. 1A; H314					
7774-29-0	Mercury(II) iodide		5-10 %			
	231-873-8	080-002-00-6				
	Acute Tox. 1, Acute Tox. 2, Acute Tox. 2, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H310 H330 H373 H400 H410					
7681-82-5	Sodium iodide			1-10 %		
	231-679-3					
	Skin Irrit. 2, Eye Irrit. 2A, Aquatic Acute 1 (M-Factor = 1); H315 H319 H400					

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. Call a physician immediately.

Show this safety data sheet to the doctor in attendance.

### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### After contact with eves

Rinse immediately with plenty of water for at least 15 minutes. Call a physician immediately.

Show this safety data sheet to the doctor in attendance.

### After ingestion

Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Show this safety data sheet to the doctor in attendance.

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

Irritation and corrosion

## 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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



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### Unsuitable extinguishing media

None known.

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

Fire may liberate hazardous vapours.

Fire may cause evolution of: Mercury, Sodium oxides

## 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### 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 and dispose of as hazardous waste.

#### 6.4. Reference to other sections

13. Disposal considerations

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

# Advice on safe handling

Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes.

#### Further information on handling

Wash hands before breaks and at the end of workday.

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Storage temperature: 5-25 °C, Keep away from heat and sources of ignition.

## Hints on joint storage

Do not store together with Acids, Ammonia

Store in a cool and shaded area. Perishable if frozen.

#### Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

### 7.3. Specific end use(s)

Reagent for analysis

## **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

### Additional advice on limit values

None known.





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### 8.2. Exposure controls

### Appropriate engineering controls

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

### Protective and hygiene measures

Wash hands before breaks and at the end of workday.

### 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

Avoid contact with skin, eyes and clothing.

### Respiratory protection

Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation.

### **Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

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

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

Physical state: liquid
Colour: yellow
Odour: odourless

pH-Value (at 20 °C):

## Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

No data available

Softening point:

Pour point:

Plash point:

Rot applicable

not applicable

not applicable

not applicable

Sustaining combustion:

No data available

Flammability

Solid: not applicable
Gas: not applicable

**Explosive properties** 

not applicable

Lower explosion limits:

Upper explosion limits:

Inot applicable

not applicable

not applicable

not applicable

not applicable

Auto-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: no data available





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### **Oxidizing properties**

not applicable

Vapour pressure:

Vapour pressure:

no data available

Density (at 20 °C):

Bulk density:

not applicable
Water solubility:

soluble

### Solubility in other solvents

no data available

Partition coefficient: no data available no data available Viscosity / dynamic: no data available Viscosity / kinematic: Flow time: no data available Vapour density: no data available Evaporation rate: no data available no data available Solvent separation test: no data available Solvent content:

#### 9.2. Other information

Solid content: not applicable

no data available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

see chapter: 10.3

10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

Reacts with the following substances:

Metals, Strong acids

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Acids, Oxidizing agents, Organic materials, Ammonia

### 10.6. Hazardous decomposition products

Under fire conditions: see chapter 5

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

# 11.1. Information on toxicological effects

## Toxicocinetics, metabolism and distribution

No toxicology information is available.

## **Acute toxicity**

The toxicological data has been taken from products of similar composition.

#### ATEmix calculated

ATE (oral) 52,7 mg/kg; ATE (dermal) 52,7 mg/kg; ATE (inhalation vapour) 5,27 mg/l; ATE (inhalation aerosol) 0.527 mg/l



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CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
7774-29-0	Mercury(II) iodide								
	oral	LD50	18 mg/kg	rat					
	dermal	ATE	5 mg/kg						
	inhalation vapour	ATE	0,5 mg/l						
	inhalation aerosol	ATE	0,05 mg/l						
7681-82-5	Sodium iodide								
	oral	LD50 mg/kg	4340	rat					

### Irritation and corrosivity

The product causes burns of eyes, skin and mucous membranes.

### Sensitising effects

No known effect.

#### **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.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
1310-73-2	sodium hydroxide; caustic soda							
	Acute fish toxicity	LC50 mg/l	45,4		Onchorhynchus mykiss			
7774-29-0	Mercury(II) iodide							
	Acute fish toxicity	LC50 mg/l	0,13		Leuciscus idus (Golden orfe)			
	Acute crustacea toxicity	EC50 mg/l	0,0052		Daphnia magna (Water flea)			
7681-82-5	Sodium iodide							
	Acute fish toxicity	LC50	860 mg/l	96 h				
	Acute crustacea toxicity	EC50 mg/l	0,17	48 h				

### 12.2. Persistence and degradability

No data is available on the product itself.

# 12.3. Bioaccumulative potential

no data available

## 12.4. Mobility in soil

no data available

# 12.5. Results of PBT and vPvB assessment

no data available

# 12.6. Other adverse effects

Discharge into the environment must be avoided.

## **SECTION 13: Disposal considerations**





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### 13.1. Waste treatment methods

### Advice on disposal

Dispose of as special waste in compliance with local and national regulations.

#### Waste disposal number of waste from residues/unused products

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

### Waste disposal number of 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

### Waste disposal number of 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

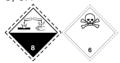
# **SECTION 14: Transport information**

## Land transport (ADR/RID)

UN 2922 14.1. UN number:

14.2. UN proper shipping name: Corrosive liquid, toxic, n.o.s. (Mercuric Iodide/Sodium Hydroxide Solution)

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 8 6 1



### Inland waterways transport (ADN)

### Other applicable information (inland waterways transport)

Not tested

### Marine transport (IMDG)

14.1. UN number: UN 2922

Corrosive liquid, toxic, n.o.s. (Mercuric Iodide/Sodium Hydroxide Solution) 14.2. UN proper shipping name:

14.3. Transport hazard class(es): 8, 6.1 14.4. Packing group: Ш PP Marine pollutant: FmS: F-A.S-B alkalis Segregation group:

Air transport (ICAO-TI/IATA-DGR)

UN 2922 14.1. UN number:

14.2. UN proper shipping name: Corrosive liquid, toxic, n.o.s. (Mercuric Iodide/Sodium Hydroxide Solution)

14.3. Transport hazard class(es): 14.4. Packing group: Ш

14.5. Environmental hazards

**ENVIRONMENTALLY HAZARDOUS:** yes





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Danger releasing substance: sodium hydroxide; caustic soda

Mercury(II) iodide

#### 14.6. Special precautions for user

Use personal protective equipment.

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

not applicable

### Other applicable information

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P These transport data apply to the entire pack

### **SECTION 15: Regulatory information**

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

### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils 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.

Water contaminating class (D): 3 - highly water contaminating

### 15.2. Chemical safety assessment

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

## **SECTION 16: Other information**

# Changes

H290

Revision: 28.04.2017

Safety datasheet sections which have been updated: 2, 9, 14

Revision: 27.04.2015

Safety datasheet sections which have been updated: 2, 4, 11

May be corrosive to metals.

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

	and the second s
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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





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# 23765-26 Polyvinyl Alcohol Dispersing Agent

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

### 1.1. Product identifier

23765-26 Polyvinyl Alcohol Dispersing Agent

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

### Use of the substance/mixture

Water analysis

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

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach.com
Internet: www.de.hach.com
Responsible Department: HACH LANGE Ltd.

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e-Mail: info-uk@hach.com

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

number: service -

### **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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

## 2.3. Other hazards

None known.

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

## 3.2. Mixtures



according to Regulation (EC) No 1907/2006

# 23765-26 Polyvinyl Alcohol Dispersing Agent

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### **Hazardous components**

CAS No	Chemical name						
	EC No	Index No	REACH No				
	Classification according to Regulati	Classification according to Regulation (EC) No. 1272/2008 [CLP]					
7732-18-5	18-5 Water						
	231-791-2						
9002-89-5	Polyvinyl alcohol						
	209-183-3						

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.

#### After inhalation

Move to fresh air.

### After contact with skin

Wash off immediately with plenty of water.

If skin irritation persists, call a physician.

# After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Show this safety data sheet to the doctor in attendance.

### After ingestion

If conscious, drink plenty of water. Call a physician immediately. Show this safety data sheet to the doctor in attendance.

### 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

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable extinguishing media

No Limit

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

Fire may liberate hazardous vapours.

### 5.3. Advice for firefighters

In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### Additional information

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





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#### **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

Sweep up or vacuum up spillage and collect in suitable container for disposal.

### 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 eves.

### Advice on protection against fire and explosion

See also section 5

### Further information on handling

Avoid contact with skin, eyes and clothing.

### 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

None known.

### Further information on storage conditions

no data available

### 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.

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





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material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

### Skin protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Respiratory protection

Provide adequate ventilation.

### **Environmental exposure controls**

Should not be released into the environment.

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

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

Physical state: liquid
Colour: red brown
Odour: slight unpleasant

pH-Value (at 20 °C): 5,4

Changes in the physical state

Melting point: 0 °C
Initial boiling point and boiling range: 98 °C
Sublimation point: not applicable
Softening point: not applicable
Pour point: not applicable
Flash point: not applicable

**Flammability** 

Solid: not applicable
Gas: not applicable

**Explosive properties** 

not applicable

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not applicable

not applicable

**Auto-ignition temperature** 

Solid: not applicable
Gas: not applicable

Decomposition temperature: no data available

**Oxidizing properties** 

not applicable

Vapour pressure:

Density (at 20 °C):

Bulk density:

Water solubility:

(at 20 °C)

soluble

(at 20 °C)

Solubility in other solvents

no data available

Partition coefficient:

Viscosity / dynamic:

no data available

viscosity / kinematic:

no data available





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Flow time:

Vapour density:

no data available

Evaporation rate:

no data available

Solvent separation test:

no data available

no data available

no data available

no data available

9.2. Other information

Solid content: not applicable

no data available

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

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

None known.

## 10.6. Hazardous decomposition products

Carbon oxides

### **Further information**

Stable under recommended storage conditions.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

No toxicology information is available.

### **Acute toxicity**

No data is available on the product itself.

# Irritation and corrosivity

No known effect.

# Sensitising effects

No known effect.

### 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

# Specific effects in experiment on an animal

No toxicology information is available.



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#### Additional information on tests

None known.

### **Practical experience**

#### Observations relevant to classification

None known.

#### Other observations

None known.

#### **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.

### 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**

Should not be released into the environment.

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

### 13.1. Waste treatment methods

### Advice on disposal

In accordance with local and national regulations.

### Waste disposal number of waste from 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

### Waste disposal number of 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

### Waste disposal number of 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)



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# **Safety Data Sheet**

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23765-26 Polyvinyl Alcohol Dispersing Agent

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**14.2. UN proper shipping name:** Not subject to transport regulations.

Inland waterways transport (ADN)

14.2. UN proper shipping name: Not tested

Marine transport (IMDG)

**14.2. UN proper shipping name:** Not subject to transport regulations.

Air transport (ICAO-TI/IATA-DGR)

**14.2. UN proper shipping name:** 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 relevant

### Other applicable information

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P

### **SECTION 15: Regulatory information**

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

## EU regulatory information

### **Additional information**

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### **National regulatory information**

Water contaminating class (D): - - not water contaminating

## 15.2. Chemical safety assessment

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

### **SECTION 16: Other information**

## Changes

Revision: 16.02.2018

Safety datasheet sections which have been updated: 4, 12

Revision: 22.09.2014

Safety datasheet sections which have been updated: 4 - 16

### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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



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# **Safety Data Sheet**

HACH LANGE GmbH

according to Regulation (EC) No 1907/2006

## 23766-26 Mineral Stabilizer Solution

Revision date: 16.02.2018 Product code: 2376626 Page 1 of 7

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

### 1.1. Product identifier

23766-26 Mineral Stabilizer Solution

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

### Use of the substance/mixture

Water analysis

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

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach.com
Internet: www.de.hach.com
Responsible Department: HACH LANGE Ltd.

5, Pacific Way

Salford Manchester M50 1DL - United Kingdom Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324

e-Mail: info-uk@hach.com

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

number: service -

### **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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

## 2.3. Other hazards

no data available

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

## 3.2. Mixtures



according to Regulation (EC) No 1907/2006

### 23766-26 Mineral Stabilizer Solution

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#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regula	ation (EC) No. 1272/2008 [CLP]	•		
7732-18-5	Water				
	231-791-2				
			•		
6132-04-3	tri-Sodium citrate dihydrate				
	200-675-3				
6381-59-5	Potassium sodium tartrate tetrahy	vdrate		20-30 %	
	205-698-2				

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.

### After inhalation

Move to fresh air.

## After contact with skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes . If skin irritation persists, call a physician.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Show this safety data sheet to the doctor in attendance.

# After ingestion

If conscious, drink plenty of water. Call a physician immediately. Show this safety data sheet to the doctor in attendance.

### 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

#### 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 case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.





according to Regulation (EC) No 1907/2006

#### 23766-26 Mineral Stabilizer Solution

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#### 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.

Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas.

For personal protection see section 8.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

#### 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.

Wash thoroughly after handling.

# Advice on protection against fire and explosion

See also section 5

# Further information on handling

Avoid contact with skin, eyes and clothing.

### 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

no data available

## 7.3. Specific end use(s)

Reagent for analysis

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

### 8.1. Control parameters

# 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.

Wash hands before breaks and after work.

General industrial hygiene practice.



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### 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

Avoid contact with skin, eyes and clothing.

## **Respiratory protection**

Provide adequate ventilation.

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

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

Physical state: liquid

Colour: clear, colourless
Odour: odourless

pH-Value (at 20 °C): 8,7

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

not applicable
no data available
no data available
Flash point:

no data available

**Flammability** 

Solid: no data available
Gas: no data available

**Explosive properties** 

not applicable

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not applicable

not applicable

**Auto-ignition temperature** 

Solid: no data available
Gas: no data available
Decomposition temperature: no data available

**Oxidizing properties** 

no data available

Vapour pressure:

Vapour pressure:

Density (at 20 °C):

Bulk density:

Water solubility:

(at 20 °C)

soluble

(at 20 °C)



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# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## 23766-26 Mineral Stabilizer Solution

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#### 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 no data available Solvent separation test: Solvent content: no data available

9.2. Other information

Solid content: no data available

no data available

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

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

The product is chemically stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Organic materials

### 10.6. Hazardous decomposition products

Sodium oxides

### **Further information**

Stable under recommended storage conditions.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

### **Acute toxicity**

No data is available on the product itself.

CAS No	Chemical name								
	Exposure route	Dose	Species	Source	Method				
6132-04-3	tri-Sodium citrate dihydrate								
	oral	LD50 >8000 ma/ka	rat						

## Irritation and corrosivity

No known effect.

## **Further information**

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





according to Regulation (EC) No 1907/2006

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## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No data is available on the product itself.

CAS No	Chemical name							
	Aquatic toxicity	Dose	[h]   [d] Species	Source	Method			
6132-04-3	tri-Sodium citrate dihydrate							
	Acute crustacea toxicity	EC50 736 mg/l	48 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 is available on the product itself.

## 12.5. Results of PBT and vPvB assessment

No data is available on the product itself.

#### 12.6. Other adverse effects

No data is available on the product itself.

#### **Further information**

Should not be released into the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### Advice on disposal

In accordance with local and national regulations.

# Waste disposal number of waste from 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

### Waste disposal number of 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

# Waste disposal number of 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)

**14.2. UN proper shipping name:** Not subject to transport regulations.

Inland waterways transport (ADN)

14.2. UN proper shipping name: Not tested

Marine transport (IMDG)

**14.2. UN proper shipping name:** Not subject to transport regulations.



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Air transport (ICAO-TI/IATA-DGR)

**14.2. UN proper shipping name:** 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 relevant

# **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

#### Additional information

The product does not need to be labelled in accordance with EC directives or respective national laws.

### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

#### 15.2. Chemical safety assessment

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

### **SECTION 16: Other information**

## Changes

Revision: 16.02.2018

Safety datasheet sections which have been updated: 4, 12

Revision: 01.08.2014

Safety datasheet sections which have been updated: 2, 4-16

## **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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