

according to Regulation (EC) No 1907/2006

23688-55 pPb-4 Neutralizer Solution

Revision date: 11.09.2017

Product code: 2368855

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

### 1.1. Product identifier

23688-55 pPb-4 Neutralizer 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: Street:	HACH LANGE GmbH Willstätterstr. 11
Place:	D-40549 Düsseldorf
Telephone: e-mail: Internet: Responsible Department:	+49 (0)211 5288-383 SDS@hach.com www.de.hach.com 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
<u>1.4. Emergency telephone</u> number:	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency 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 Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.

# 2.2. Label elements

## Regulation (EC) No. 1272/2008

### Hazard components for labelling Tris(hydroxymethyl)aminomethane sodium hydroxide; caustic soda L(+)-Tartaric acid

Signal word: Danger



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**Pictograms:** 

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# Hazard statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

### **Precautionary statements**

,, ,	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310	Immediately call a POISON CENTER/doctor.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.
P390	Absorb spillage to prevent material damage.
P234	Keep only in original packaging.

# Additional advice on labelling

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

## 2.3. Other hazards

None known.

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

## 3.2. Mixtures

## Hazardous components

CAS No	Chemical name	Chemical name				
	EC No	Index No	REACH No			
	Classification according to Regul	ation (EC) No. 1272/2008	[CLP]			
7732-18-5	Water			70,0-80,0 %		
	231-791-2					
		•	•			
77-86-1	Tris(hydroxymethyl)aminomethane					
	201-064-4					
	Skin Irrit. 2, Eye Irrit. 2, STOT SE					
1310-73-2	sodium hydroxide; caustic soda			1,0-10,0 %		
	215-185-5	011-002-00-6				
	Skin Corr. 1A; H314					
87-69-4	L(+)-Tartaric acid			<5,0 %		
	201-766-0					
	Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H315 H318 H335					

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

# **SECTION 4: First aid measures**



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## 4.1. Description of first aid measures

### **General information**

Take off contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance.

### After inhalation

Move to fresh air.

If symptoms persist, call a physician.

#### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

#### After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

### 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.

### Unsuitable extinguishing media

None known.

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

Fire may liberate hazardous vapours.

### 5.3. Advice for firefighters

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

#### Additional information

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

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

# 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

13. Disposal considerations

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling



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Safety Data Sheet

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# Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes.

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

# Requirements for storage rooms and vessels

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

#### Hints on joint storage

Do not store near acids.

### 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.

#### 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Skin protection

Avoid contact with skin, eyes and clothing.

### **Respiratory protection**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

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

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

Physical state: Colour: Odour:	liquid colourless odourless	
pH-Value (at 20 °C):		
Changes in the physical state		
Melting point:		
Initial boiling point and boiling range	:	
Sublimation point:		



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Revision date: 11.09.2017     Product code: 2368855     Page 5 of 9       Softening point:     not applicable       Pour point:     not applicable       Flash point:     not applicable       Flash point:     not applicable       Gas:     not applicable       Cover explosion limits:     not applicable       Upper explosion limits:     not applicable       Quer explosion limits:     not applicable       Decomposition temperature:     not applicable       Oxidizing properties     not applicable       Density (at 20 °C):     1,06 g/cm³       gat available     gat available       Value density:     no data available       Vapor density:		23688-55 pPb-4 Neutralizer Solution	
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Solvent content:     no data available       9.2. Other information	Evaporation rate:	no data available	
9.2. Other information	Solvent separation test:	no data available	
	Solvent content:	no data available	
Solid content: no data available	9.2. Other information		
	Solid content:	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

None known.

# 10.5. Incompatible materials

Acids



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### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Acute toxicity

No toxicology information is available.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
77-86-1	Tris(hydroxymethyl)aminomethane					
	oral	LD50 mg/kg	5900	rat		
87-69-4	L(+)-Tartaric acid					
	oral	LD50 mg/kg	7500	rat		

#### Irritation and corrosivity

Causes skin and eye burns.

### 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 classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

#### 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.

### 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 information on ecology is available.

Do not flush into surface water or sanitary sewer system.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d] Species	Source	Method
1310-73-2	sodium hydroxide; caustic	soda			
	Acute fish toxicity	LC50 45,4 mg/l	96 h Onchorhynchus mykiss		

# 12.2. Persistence and degradability

No data is available on the product itself.



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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation		-	
77-86-1	Tris(hydroxymethyl)aminomethane			
	OECD Test Guideline 301	89%	28	

#### 12.3. Bioaccumulative potential

No data is available on the product itself.

Partition coefficient n-octanol/water			
CAS No	Chemical name	Log Pow	
77-86-1	Tris(hydroxymethyl)aminomethane	-2,31	

# 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 data available

### **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

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and 160506 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

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and 160506 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)

<u>14.1. UN number:</u>	UN 1824
14.2. UN proper shipping name:	Sodium hydroxide solution
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Inland waterways transport (ADN)	
Other applicable information (inland water Not tested	rways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 1824
14.2. UN proper shipping name:	Sodium hydroxide solution



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BeRight		
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14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Marine pollutant:		
EmS:	F-A,S-B	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number:</u>	UN 1824	
14.2. UN proper shipping name:	Sodium hydroxide solution	
14.3. Transport hazard class(es):	8 II	
14.4. Packing group:	11	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDO	JS: no	
14.6. Special precautions for user no data available		
14.7. Transport in bulk according to not applicable	Annex II of Marpol and the IBC Code	
Additional Information This pro		
Shipping Name: Chemical Kit,	I or testing purposes. This kit would have the following classification: Proper Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P	
dangerous goods for analytica	I or testing purposes. This kit would have the following classification: Proper Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P	
dangerous goods for analytica Shipping Name: Chemical Kit, SECTION 15: Regulatory informa	I or testing purposes. This kit would have the following classification: Proper Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P	_
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dangerous goods for analytica Shipping Name: Chemical Kit, SECTION 15: Regulatory informa <u>15.1. Safety, health and environmen</u> National regulatory information Employment restrictions: Water contaminating class (D): <u>15.2. Chemical safety assessment</u>	I or testing purposes. This kit would have the following classification: Proper Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P ation tal regulations/legislation specific for the substance or mixture 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. 2 - clearly water contaminating	
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### Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.



according to Regulation (EC) No 1907/2006

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H318	Causes serious eye damage.
LI210	Causaa aariaya aya irritatian

H319 Causes serious eye irritation. H335

May cause respiratory irritation.

# **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.)