

according to Regulation (EC) No 1907/2006

# 46249 Soap Solution for Hardness Determination

Revision date: 18.05.2015

Product code: 46249

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

# 1.1. Product identifier

46249 Soap Solution for Hardness Determination

# 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: Place:	HACH LANGE GmbH Willstätterstr. 11 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 Hazard Statements: May be corrosive to metals. Causes severe skin burns and eye damage.

## 2.2. Label elements

# Regulation (EC) No. 1272/2008

Hazard components for labelling potassium hydroxide; caustic potash

Signal word:

Pictograms:



Danger

### Hazard statements

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



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## **Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
	or shower.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
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

None known.

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

# 3.2. Mixtures

### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regula	ation (EC) No. 1272/2008 [CLP	1	
7732-18-5	Water			> 85 %
	231-791-2			
1310-58-3	potassium hydroxide; caustic pota	ash		10 - 15 %
	215-181-3	019-002-00-8		
	Acute Tox. 4, Skin Corr. 1A; H302	2 H314		
57-55-6	1,2-Propanediol			< 0,5 %
	200-338-0			
67-63-0	propan-2-ol; isopropyl alcohol; iso	propanol		< 0,1 %
	200-661-7	603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	E 3; H225 H319 H336	·	
8001-26-1	Linseed oil			< 0,1 %
	232-278-6			

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 contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance. First aider needs to protect himself.



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# After inhalation

Move to fresh air.

If symptoms persist, call a physician. If not breathing, give artificial respiration. Consult a physician.

### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing immediately. Consult a physician.

#### After contact with eyes

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

### After ingestion

Clean mouth with water and drink afterwards plenty of water. Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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

May cause thermal burns. Irritation and corrosion, Cough, Shortness of breath, Spasm. Nausea, Vomiting, Diarrhoea

May cause headache and dizziness.

# 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

Water, Carbon dioxide (CO2), Alcohol-resistant foam Dry powder,

# Unsuitable extinguishing media

None known.

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

### Highly flammable.

Fire may liberate hazardous vapours.

In the event of fire the following can be released: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

Keep away from fire, sparks and heated surfaces.

### 5.3. Advice for firefighters

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

#### Additional information

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

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

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

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

Do not breathe vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.



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

The product is insoluble and floats on water. Remove from surface water (e.g. by skimming or siphoning).

# 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. General industrial hygiene practice.

## Advice on protection against fire and explosion

See also section 5

### Further information on handling

Observe label precautions. Avoid contact with skin, eyes and clothing. Avoid contact with eyes. Use barrier skin cream.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep in a dry, cool place. Keep away from heat. Keep away from fire, sparks and heated surfaces.

# Hints on joint storage

None known.

# 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
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

# Additional advice on limit values

None known.

#### 8.2. Exposure controls





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

#### Skin protection

Remove and wash contaminated clothing before re-use.

# **Respiratory protection**

Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter

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

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

Physical state:	liquid	
Colour:	brown, clear	
Odour:	odourless	
pH-Value (at 20 °C):		13,5
Changes in the physical state		
Melting point:		not applicable
Initial boiling point and boiling range:		98 °C
Sublimation point:		not applicable
Softening point:		not applicable
Pour point:		no data available
:		no data available
Flash point:		25 °C
Sustaining combustion:		No data available
Flammability		
Solid:		no data available
Gas:		no data available
Explosive properties		
no data available		
Lower explosion limits:		no data available
Upper explosion limits:		no data available
Ignition temperature:		no data available
Auto-ignition temperature		
Solid:		no data available
Gas:		no data available
Decomposition temperature:		no data available



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Oxidizing properties no data available		
Vapour pressure:	no data available	
Vapour pressure:	no data available@N09.006025 hPa	
Density (at 20 °C):	1,056 g/cm³	
Bulk density:	not applicable	
Water solubility: (at 20 °C)	soluble	
Solubility in other solvents soluble		
Partition coefficient:	no data available	
Viscosity / dynamic:	no data available	
Viscosity / kinematic:	no data available	
Flow time:	no data available	
Vapour density:	no data available	
Evaporation rate:	no data available	
Solvent separation test:	no data available	
Solvent content:	no data available	
9.2. Other information		
Solid content:	not applicable	
no data available		

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity Hazard: Oxidizing agents

# 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

Keep away from heat.

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

# 10.5. Incompatible materials

woven fabric, Organic materials,

# 10.6. Hazardous decomposition products

Carbon monoxide, Carbon monoxide

#### **Further information**

None known.

# **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.



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
1310-58-3	potassium hydroxide; ca	ustic potash				
	oral	LD50 mg/kg	333	Rat	Merck	
57-55-6	1,2-Propanediol					
	oral	LD50 mg/kg	20000	rat	Toxicology and Appli	
	dermal	LD50 mg/kg	20800	rabbit	Raw Material Data Ha	
67-63-0	propan-2-ol; isopropyl al	cohol; isoproj	panol			
	oral	LD50 mg/kg	5045	rat	RTECS	
	dermal	LD50 mg/kg	12800	rabbit		
	inhalation (4 h) vapour	LC50	46,5 mg/l	rat		

# Irritation and corrosivity

No known effect.

#### Sensitising effects

Contains no substance or substances classified as sensitising.

## Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

#### STOT-single exposure

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

#### STOT-repeated exposure

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

# Aspiration hazard

No aspiration toxicity classification

# Specific effects in experiment on an animal

No data is available on the product itself.

# Additional information on tests

no data available

# Practical experience

## Observations relevant to classification

no data available

# Other observations

# no data available

# Further information

Handle in accordance with good industrial hygiene and safety practice.

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

#### 12.1. Toxicity

No data is available on the product itself. Do not flush into surface water or sanitary sewer system.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
1310-58-3	potassium hydroxide; cau	stic potash					
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis	IUCLID	
57-55-6	1,2-Propanediol						
	Acute fish toxicity	LC50 mg/l	51600	96 h	Oncorhynchus mykiss (rainbow trout)	OECD 203	
	Acute crustacea toxicity	EC50 mg/l	34400	48 h	Daphnia magna (Water flea)	Information taken from reference works and the literature.	
67-63-0	propan-2-ol; isopropyl alc	ohol; isopro	opanol			•	
	Acute fish toxicity	LC50 mg/l	1400	96 h	Lepomis macrochirus (Bluegill sunfish)		
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata (green algae)	IUCLID	
	Acute crustacea toxicity	EC50 mg/l	13299	48 h	Daphnia magna (Water flea)	UICLID	

# 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.

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
57-55-6	1,2-Propanediol	-0,92

#### 12.4. Mobility in soil

no data available

#### 12.5. Results of PBT and vPvB assessment

no data available

#### 12.6. Other adverse effects

No known effect.

#### **Further information**

no data available

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

### 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



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# 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)	
14.1. UN number:	
14.2. UN proper shipping name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
14.3. Transport hazard class(es):	8 II
<u>14.4. Packing group:</u> Hazard label:	n 8+3
Hazalu label.	
Classification code:	CF1
Special Provisions:	274
Limited quantity:	1L
Transport category: Hazard No:	2 83
Tunnel restriction code:	D/F
Other applicable information (land transp	port)
Not subject to transport regulations. Excepted Quantities: E2	,
Inland waterways transport (ADN)	
Other applicable information (inland wate Not tested	erways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 2920
14.2. UN proper shipping name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8+3
Special Provisions:	274
Limited quantity:	1 L
EmS:	F-E, S-C
Other applicable information (marine tran Not subject to transport regulations. Excepted Quantities: E2	nsport)
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	UN 2920
14.2. UN proper shipping name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
14.3. Transport hazard class(es):	8



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14.4. Packing group	<u>):</u>	II	
Hazard label:		8+3	
Limited quantity Pas	senger:	0.5 L	
IATA-packing instruc	tions - Passenger:	851	
IATA-max. quantity -	Passenger:	1 L	
IATA-packing instruc	tions - Cargo:	855	
IATA-max. quantity -	Cargo:	30 L	
Other applicable in	formation (air transp	ort)	
	ansport regulations.		
Excepted Quanti			
Passenger-LQ: \			
Ū.			
14.5. Environmental ha	<u>ızards</u>		
ENVIRONMENTALL	Y HAZARDOUS:	no	
14.6. Special precautio	ons for user		
no data available			
		II of Mound and the IDC Code	
<u>14.7. Transport in bulk</u>	according to Annex	II of Marpol and the IBC Code	
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Not relevant			
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Other applicable inforr no data available	9		
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Other applicable inform no data available SECTION 15: Regula	entory information	ulations/legislation oppositio for the substance or mixture	
Other applicable inform no data available SECTION 15: Regula 15.1. Safety, health and	e Itory information d environmental regu	ulations/legislation specific for the substance or mixture	
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Other applicable inform no data available SECTION 15: Regula 15.1. Safety, health and National regulatory Water contaminating 15.2. Chemical safety a Chemical safety SECTION 16: Other i Changes Revision: 18.05.3 Safety datashee Relevant H and EUH H225 H290	e atory information d environmental requ information g class (D): assessment assessments for subs information 2015 t sections which have Highly flammat May be corrosi	1 - slightly water contaminating stances in this mixture were not carried out. e been updated: 1-16 er and full text) ble liquid and vapour. ive to metals.	
Other applicable inform no data available SECTION 15: Regula 15.1. Safety, health and National regulatory Water contaminating 15.2. Chemical safety a Chemical safety SECTION 16: Other i Changes Revision: 18.05.3 Safety datashee Relevant H and EUH H225 H290 H302	e atory information d environmental requ information g class (D): assessment assessments for subs information 2015 t sections which have Highly flammat May be corrosi Harmful if swal	1 - slightly water contaminating stances in this mixture were not carried out. e been updated: 1-16 er and full text) ble liquid and vapour. ive to metals. llowed.	
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Other applicable inform no data available SECTION 15: Regula 15.1. Safety, health and National regulatory Water contaminating 15.2. Chemical safety a Chemical safety SECTION 16: Other i Changes Revision: 18.05.1 Safety datashee Relevant H and EUH H225 H290 H302 H314 H319	e atory information d environmental requ information g class (D): assessment assessments for subs information 2015 t sections which have Highly flammat May be corrosi Harmful if swal Causes severe Causes serious	1 - slightly water contaminating stances in this mixture were not carried out. e been updated: 1-16 er and full text) ble liquid and vapour. ive to metals. llowed. e skin burns and eye damage. s eye irritation.	
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Other applicable inform no data available SECTION 15: Regular 15.1. Safety, health and National regulatory Water contaminating 15.2. Chemical safety a Chemical safety a SECTION 16: Other i Changes Revision: 18.05.7 Safety datashee Relevant H and EUH H225 H290 H302 H314 H319 H336 Further Information	e atory information d environmental requ information g class (D): assessments assessments for subs nformation 2015 t sections which have H statements (number Highly flammat May be corrosi Harmful if swal Causes severe Causes serious May cause dro	1 - slightly water contaminating stances in this mixture were not carried out. e been updated: 1-16 er and full text) ble liquid and vapour. ive to metals. llowed. e skin burns and eye damage. s eye irritation.	

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