



Be Right™

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# 2450-32 Sodium Hydroxide, 5.0 N

Revision date: 13.05.2015 Product code: 245032 Page 1 of 8

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

#### 1.1. Product identifier

2450-32 Sodium Hydroxide, 5.0 N

# 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

Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1

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 sodium hydroxide; caustic soda

Signal word: Danger

Pictograms:



#### **Hazard statements**

H290 May be corrosive to metals.



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H314 Causes severe skin burns and eye damage.

#### **Precautionary statements**

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

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.

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

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

P310 Immediately call a POISON CENTER/doctor.

#### 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 Regulation (EC) No. 1272/2008 [CLP]				
7732-18-5	Water			80-90 %	
	231-791-2				
1310-73-2	sodium hydroxide; caustic soda			10-20 %	
	215-185-5	011-002-00-6			
	Skin Corr. 1A; H314				

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. Consult a physician. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## After contact with skin

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

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Show this safety data sheet to the doctor in attendance.

## After contact with eyes

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

## 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.





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#### 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

The product itself does not burn.

## 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

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

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

#### Requirements for storage rooms and vessels

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

## Hints on joint storage

Do not store near acids.

## 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



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## **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin	
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL	ĺ

#### 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.

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

Ensure adequate ventilation, especially in confined areas.

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: colourless
Odour: odourless

pH-Value (at 20 °C):

## Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Not applicable
Pour point:

Flash point:

not applicable
not applicable
not applicable
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





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**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:

Not applicable

not applicable

water solubility:

soluble

Solubility in other solvents

no data available

Partition coefficient: no data available Viscosity / dynamic: no data available Viscosity / kinematic: no data available no data available Flow time: 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: 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.

## 10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Decomposes on heating.

#### 10.5. Incompatible materials

Acids

## 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 data is available on the product itself.

## Irritation and corrosivity

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



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#### Sensitising effects

No known effect.

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

Contains no ingredient listed as a carcinogen

## STOT-single exposure

This information is not available.

#### STOT-repeated exposure

This information is not available.

#### **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 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			Onchorhynchus mykiss		

## 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 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

## **SECTION 14: Transport information**

# Land transport (ADR/RID)

**14.1. UN number:** UN 1824

**14.2. UN proper shipping name:** Sodium hydroxide solution

14.3. Transport hazard class(es): 8
14.4. Packing group: ||

#### Inland waterways transport (ADN)

#### Other applicable information (inland waterways transport)

Not tested

#### Marine transport (IMDG)

**14.1. UN number:** UN 1824

14.2. UN proper shipping name: Sodium hydroxide solution

14.3. Transport hazard class(es):814.4. Packing group:IIMarine pollutant:---

EmS: F-A,S-B

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1824

14.2. UN proper shipping name: Sodium hydroxide solution

14.3. Transport hazard class(es): 8
14.4. Packing group:

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

## 14.6. Special precautions for user

no data available

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

not applicable

# Other applicable information

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).

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.





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# **SECTION 16: Other information**

## Changes

Revision: 13.05.2015

Safety datasheet sections which have been updated: 2

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

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

#### **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.)