EC Safety Data Sheet

according to regulation (EC) Nr. 1907/2006

WIN L NaOH

(Sodium hydroxide 33%)

SECTION 1: Designation of the substance/preparation and the company

1.1. Product identifier

Sodium hydroxide 33%

Further trade names

CERTDOS NaOH
WIN L NaOH

CAS No:	1310-73-2
Index No:	011-002-00-6
EC No:	215-185-5

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

Use of the substance/the mixture

Chemical intermediate

1.3. Details of the supplier who provides the safety data sheet

Company name:	CERTUSS Dampfautomaten GmbH & Co. KG
Street:	Hafenstr. 65
City:	D-47809 Krefeld
Phone:	+49 (0) 2151 578-0
Contact partner:	Mr. Hamacher
E-mail:	t.hamacher@certuss.com
Informing department:	Technical Director

Monday to Thursday from 9 – 16 (9 a.m. to 4 p.m.), Friday 9 – 14 (9 a.m. to 2 p.m.)

Emergency number	DE: GIZ-Nord +49 (0)551 -19240
	AUT: +43 1 406 43 43

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Corr. 1A; H314

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word: Danger

Pictograms:

Hazard statements

H314	Causes severe skin burns and eye damage.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

00.044.02.1793.07 GB

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

SODIUM HYDROXIDE

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1310-73-2	Sodium hydroxide; caustic soda			33 %
	215-185-5	011-002-00-6		
	Skin Corr. 1A; H314			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Anteil
	Specific Conc. Limits, M-factors and ATE		
1310-73-2	215-185-5	Sodium hydroxide; caustic soda	33 %
		Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Move victim out of danger zone. Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest. If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

After contact with skin, wash immediately with: Water. Subsequently wash off with: Polyethylene glykol 400. Remove contaminated, saturated clothing immediately. If symptoms persist, consult a doctor.

After contact with eyes

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

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Potential hazards: Stomach perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

4.3. Indication of any immediate medical attention and special treatment needed

Aqueous solution causes, depending on the concentration, irritation or burns of eyes, skin and mucous membranes.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn. Carbon dioxide (CO2). Atomized water. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: toxic and corrosive gases

5.3. Advice for firefighters

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

Additional information

In case of fire and/or explosion do not breathe fumes. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Make sure spills can be contained (e.g. sump pallets or kerbed areas). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. It is recommended to design all work processes always so that the following is excluded: inhalation. skin contact. Eye contact.

Advice on protection against fire and explosion

Usual measures for fire prevention. The product is not: Combustible substance. Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc) (explosive hazard!).

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Further information on handling

The usual precautions for handling chemicals are observed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep container in a well-ventilated place. Suitable material for Container: polyolefine.

Hints on joint storage

Materials to avoid: Acid.

Further information on storage conditions

Keep away from heat.

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

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: Single-use gloves. Half-gloves. Suitable material: NBR (Nitrile rubber). Butyl rubber. CR (polychloroprenes, Chloroprene rubber). NR (Natural rubber (Caoutchouc), Natural latex). Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Suitable protective clothing: Lab apron.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	odourless
Melting point/freezing point:	ca. 8 °C
Boiling point or Initial boiling point and boiling range:	120 °C
Flash point:	inapplicable
pH-Value (at 20 °C):	14
Water solubility:	completely miscible
Density (at 20 °C):	1,05-1,36 g/cm³

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

Non-flammable.

Oxidizing properties

Not oxidising.

Other safety characteristics

Solvent separation test:	0,0 %
Viscosity / dynamic: (at 20 °C)	ca. 19 mPa·s

SECTION 10: Stability and reactivity

10.1. Reactivity

Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc) (explosive hazard!).

10.2. Chemical stability

No decomposition if stored and applied. To avoid thermal decomposition do not overheat.

10.3. Possibility of hazardous reactions

Exothermic reaction with: acids.

10.4. Conditions to avoid

Strong heating

10.5. Incompatible materials

acids, Light metals, Peroxides.

10.6. Hazardous decomposition products

No decomposition if used as directed.

Further information

No decomposition if stored and applied. To avoid thermal decomposition do not overheat.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

When handled and used properly are to our knowledge no harmful effects to expect of the product.

Irritation and corrosivity

after ingestion: Irritant and corrosive effects. Potential hazards: Stomach perforation. After skin contact: Irritant and corrosive effects. Following eye contact: Irritant and corrosive effects. Possible risks of irreversible effects.

Sensitising effects

Not sensitizing to the skin.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

LC50: Crustaceans 76 mg/l 24 h

Has a very low toxicity to aquatic life.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

No bioaccumulation

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Adverse effects on aquatic organisms due to pH shift.

Further information

Do not allow to enter into surface water or drains. Classification according to Regulation (EC) No 1272/2008 [CLP]

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

061399 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from inorganic chemical processes not otherwise specified; wastes not otherwise specified

Contaminated packaging

Water (with cleaning agent). Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8

Classification code: C5

Limited quantity: LQ22

Hazard No: 80

Tunnel restriction code: E

Other applicable information (land transport)

E2

Transport category: 2

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8

Classification code: C5

Limited quantity: LQ22

Other applicable information (inland waterways transport)

E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8

Limited quantity: 1 L

EmS: F-A, S-B

Other applicable information (marine transport)

Special provisions: -

E2

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8

Limited quantity Passenger:	0.5 L
IATA-packing instructions - Passenger:	809
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	813
IATA-max. quantity - Cargo:	30L

Other applicable information (air transport)

E2

: Y809

Special provisions: A3

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the ‚juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	1 - slightly hazardous to water

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Data sources

Preparations Directive (1999/45/EC), as last amended by Regulation (EC) No 1907/2006. Substances Directive (67/548/EEC) as last amended by Directive 2009/2/EC. REACH Regulation (EC) No 1907/2006, as last amended by Regulation (EU) No. 453/2010. Regulation (EC) No 1272/2008, as last amended by Regulation (EC) No 790/2009.

CERTUSS Dampfautomaten GmbH & Co. KG
Hafenstr. 65
D-47809 Krefeld
Responsible: Mr. Thomas Hamacher
Phone: +49 (0)2151 578-0
Telefax: +49 (0)2151 578-102
E-mail: t.hamacher@certuss.com