

	Revision Date 04/15/2014	Version 1.3
SECTION 1.Identification Product identifier		
Product number	106495	
Product name	Sodium hydroxide pellets for analysis (max. 0.0002% K) EMSUF ACS,Reag. Ph Eur	RE®
CAS-No.	1310-73-2	
Relevant identified uses of t	he substance or mixture and uses advised against	
Identified uses	Reagent for analysis, Chemical production	
Details of the supplier of the	safety data sheet	
Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 01 United States of America General Inquiries: +1-978-715-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)	821,
Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week	

SECTION 2. Hazards identification

GHS Classification Corrosive to Metals, Category 1, H290

Skin corrosion, Category 1A, H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



Signal Word Danger

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

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Precautionary Statements

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

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

OSHA Hazards

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS and may deviate from the GHS information.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Formula	NaOH	HNaO (Hill)
Molar mass	40.00 g/mol	

Hazardous ingredients

Chemical Name (Concentration) CAS-No. sodium hydroxide (>= 90 % - <= 100 %) 1310-73-2 Exact percentages are being withheld as a trade secret.

SECTION 4. First aid measures

Description of first-aid measures

General advice First aider needs to protect himself.

Inhalation

After inhalation: fresh air. Get medical attention.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing. Call a physician immediately.

Eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Ingestion

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation!). Call a physician immediately. Do not attempt to neutralize.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation and corrosion, Cough, Shortness of breath, collapse, death Risk of blindness!

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Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Fire-fighting measures

Extinguishing media

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

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapors.

Advice for firefighters

Special protective equipment for fire-fighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions

Do not empty into drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7. Handling and storage

Precautions for safe handling

Observe label precautions.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers No aluminum, tin, or zinc containers.

Tightly closed. Dry.

Store at +5°C to +30°C (+41°F to +86°F).

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SECTION 8. Exposure controls/personal protection

Exposure limit(s) Ingredients			
Basis	Value	Threshold limits	Remarks
sodium hydrox	ide 1310-73-2		
ACGIH	Ceiling Limit Value:	2 mg/m ³	
NIOSH/GUIDE	Ceiling Limit Value and Time Period (if specified):	2 mg/m³	
OSHA_TRANS	PEL:	2 mg/m³	
Z1A	Ceiling Limit Value:	2 mg/m³	

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/face protection Tightly fitting safety goggles

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other protective equipment: protective clothing

Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Physical state	solid
Color	colorless
Odor	odorless

roduct number roduct name	106495 Version 1. Sodium hydroxide pellets for analysis (max. 0.0002% K) EMSURE® ACS,Reag. Ph Eur
Odor Threshold	not applicable
рН	ca. 14 at 50 g/l 68 °F (20 °C)
Melting point	323 °C
Boiling point/boiling range	2,534 °F (1,390 °C) at 1,013 hPa
Flash point	not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapor pressure	at 68 °F (20 °C) not applicable
Relative vapor density	No information available.
Density	2.13 g/cm³ at 68 °F (20 °C)
Relative density	No information available.
Water solubility	1,090 g/l at 68 °F (20 °C)
Partition coefficient: n- octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Ignition temperature	not applicable
Corrosion	May be corrosive to metals.

Product number Product name

SECTION 10. Stability and reactivity

Reactivity

See below

Chemical stability

hygroscopic

Possibility of hazardous reactions

Risk of explosion/exothermic reaction with:

Acetone, Nitriles, phosphides, halogens, halogen-halogen compounds, chlorinated solvents, Ethylene oxide, Hydrazine hydrate, hydroxylamine, anhydrides, Peroxides, Acrolein, Acid chlorides, Acids, sulfuric acid, silver salt, hydrogen peroxide, organic nitro compounds, Water

Metals, Light metals

Possible formation of:

Hydrogen

Violent reactions possible with:

ammonium compounds, organic combustible substances, phenols

Generates dangerous gases or fumes in contact with:

persulfates, Sodium borohydride, Oxides of phosphorus

Conditions to avoid

Exposure to moisture.

Incompatible materials

Aluminum, brass, Metals, metal alloys, Zinc, Tin

Hazardous decomposition products

no information available

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure Eye contact, Skin contact, Ingestion *Target Organs* Eyes Skin Respiratory system Lungs Gastro-intestinal system head tongue trachea *Acute oral toxicity*

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

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Acute inhalation toxicity

Symptoms: burns of mucous membranes, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Corrosive to respiratory system

Skin irritation rabbit Result: Causes burns. (RTECS)

Causes severe burns.

Eye irritation rabbit Result: Causes burns. (RTECS)

Causes serious eye damage. Risk of blindness!

Genotoxicity in vitro Mutagenicity (mammal cell test): micronucleus. Result: negative (Lit.)

Ames test Result: negative (IUCLID)

Specific target organ systemic toxicity - single exposure

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

Specific target organ systemic toxicity - repeated exposure

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

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as probable, possible or confirmed
	human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen
	by NTP.
ACGIH	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by ACGIH.

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Further information

Systemic effects: collapse, death Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

Ecotoxicity

Toxicity to fish LC50 Gambusia affinis (Mosquito fish): 125 mg/l; 96 h (External MSDS) *Toxicity to daphnia and other aquatic invertebrates*

EC50 Daphnia magna (Water flea): 76 mg/l; 24 h (External MSDS)

Toxicity to bacteria EC50 Photobacterium phosphoreum: 22 mg/l; 15 min (External MSDS)

Persistence and degradability

Biodegradability

The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Additional ecological information Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Neutralization possible in waste water treatment plants. Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. Transport information

Land transport (DOT)	
UN number	UN 1823
Proper shipping name	SODIUM HYDROXIDE, SOLID
Class	8
Packing group	II
Environmentally hazardous	
Air transport (IATA)	

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UN number	UN 1823
Proper shipping name	SODIUM HYDROXIDE, SOLID
Class	8
Packing group	
Environmentally hazardous	
Special precautions for user	no
Sea transport (IMDG)	
UN number	UN 1823
Proper shipping name	SODIUM HYDROXIDE, SOLID
Class	8
Packing group	II
Environmentally hazardous	
Special precautions for user EmS	yes F-A S-B

SECTION 15. Regulatory information

United States of America

OSHA Hazards Corrosive to skin Corrosive to eyes Corrosive by inhalation. Target organ effects Harmful if inhaled. Harmful if swallowed.

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

SARA 311/312 Hazards

Acute Health Hazard Chronic Health Hazard

SARA 313

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A: *Ingredients*

sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3: *Ingredients* sodium hydroxide

DEA List I Not listed

DEA List II Not listed

US State Regulations

Massachusetts Right To Know

Ingredients sodium hydroxide

Pennsylvania Right To Know

Ingredients sodium hydroxide

New Jersey Right To Know

Ingredients sodium hydroxide

California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

TSCA:	All components of the product are listed in the TSCA-inventory.
DSL:	All components of this product are on the Canadian DSL.

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Full text of H-Statements referred to under sections 2 and 3.

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

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

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Revision Date 04/15/2014

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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