



# SAFETY DATA SHEET

according to regulation (EC) No. 1907/2006 (REACH) and 1272/2008.

Version: 1

Revision Date: 23.09 2015.

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifiers **SODIUM HYDROXIDE SOLUTION 30%**

**CAS#** 1310-73-2  
**REACH#** 01-2119457892-27

**1.2. Identified uses** Detergents. Bleaching. Raw material in industry.

**1.3. Supplier** Iceland Oil Ltd.  
Katrínartún 2  
105 Reykjavík

**Telephone:** 515 1000  
**E-mail address:** [olis@olis.is](mailto:olis@olis.is)  
**Website:** [www.olis.is](http://www.olis.is)

### 1.4. Emergency telephone number

**Emergency phone:** 112  
**LSH Poison Centre:** 543 2222

## 2. HAZARDS IDENTIFICATION

### 2.1.1 Classification of the substance or mixture according to Regulation (EC) No. 1272/2008

**Classification** Skin Corr. 1A; H314  
Met. Corr. 1; H290

### 2.2. Label elements

#### 2.2.1 Labelling according to Regulation (EC) No. 1272/2008

##### Pictogram



**Signal word** Danger

**Hazard statement(s)** H290 – May be corrosive to metals.  
H314 – Causes severe skin burns and eye damage.

**Precautionary statement.** P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  
P310 – Immediately call a POISON CENTER or doctor/physician.

### 2.3. Other hazards

**Hazards** Neither considered to be persistent, bioaccumulative and toxic, nor very persistent and very bioaccumulative at levels of 0,1% or higher.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 MIXTURE

Component	Identification	Conc. %	Classification
Sodium hydroxide	CAS#: 1310-73-2 EINECS#: 215-185-5 REACH#012119457892-27	30	Met. Corr. 1; H290 Skin Corr. 1A; H314

For the full text of H-statements mentioned in this section, see section 16.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If inhaled</b>	If breathed in, move person into fresh air. Keep in a position that eases breathing. Consult a physician.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.
<b>In case of skin contact</b>	Take off contaminated clothing and shoes. Wash off with soap and plenty of water. Consult a physician.
<b>If swallowed</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

**Symptoms and effects** Corrosive substance; contains sodium hydroxide, refer to section 11.

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

**Special treatment** Consult a physician and show this safety data sheet.

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable media** Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

**Reaction products** Sodium oxides.

### 5.3. Advice for firefighters

**Advice** Wear self-contained breathing apparatus for firefighting if necessary and suitable personal protective equipment in fire. Cool unopened containers with water spray. Collect and dispose of fire extinguishing water separately.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Precautions** Refer to section 8 for information on personal protective equipment. Avoid breathing vapours, mist or gas. Avoid contact with eyes and skin. Ensure adequate ventilation. Evacuate personnel to safe areas.

### 6.2. Environmental precautions

**Precautions** Discharge into the environment must be avoided. Do not let product enter drains. Prevent further leakage if safe to do so. If the product enters rivers, drains or water courses, notify the relevant authorities.

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

**Methods and materials** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

**Other sections** Refer to section 8 for information on personal protective equipment.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Precautions** Avoid inhalation of vapour or mist. Ensure immediate access to first-aid kit and eye-wash.

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

**Storage** Keep container tightly closed in a dry and well-ventilated place. Open containers must be carefully resealed and kept upright to prevent leakage. Keep away from acids, foodstuff and animal feed.

**Storage temperature** 0-20°C.

### 7.3. Specific end uses

**Specific uses** Refer to section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Parameters** Sodium hydroxide: TLV: 2 mg/m<sup>3</sup> (UK)  
**DNEL** Worker - inhalation, repeated exposure – local effects: 1 mg/m<sup>3</sup>  
Consumer - inhalation, repeated exposure – local effects - 1 mg/m<sup>3</sup>  
Worker – dermal, short-term – local effects: <2%  
Consumer – dermal; short-term – local effects: <2%

## 8.2. Exposure controls

<b>Engineering controls</b>	Ensure adequate ventilation. Take the necessary measures to keep concentration within acceptable exposure limits.
<b>Skin protection</b>	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374. Glove material: butyl rubber.
<b>Eye protection</b>	Chemical resistant safety goggles (EN 166).
<b>Body protection</b>	Complete suit and boots protecting against chemicals.
<b>Respiratory protection</b>	Use a full-face respirator with respirator cartridges, type ABEK (EN 14387) as backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.
<b>Environment</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance: Form</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Odourless
<b>pH</b>	12,5 (concentrated solution)
<b>Melting point</b>	Not determined
<b>Boiling point</b>	Not determined
<b>Relative density</b>	1,33 g/ml at 20°C
<b>Solubility</b>	Completely soluble in water

### 9.2. Other safety information

<b>Other information</b>	Corrosive to aluminium and other light metals
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## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

<b>Reactivity</b>	Very reactive liquid. Corrosive to tissue. Corrosive to aluminium and light metals, liberates hydrogen.
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### 10.2. Chemical stability

<b>Stability</b>	Stable under recommended storage conditions.
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### 10.3. Possibility of hazardous reactions

<b>Hazardous reactions</b>	No hazardous reactions known under recommended conditions.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Liberates hydrogen gas in contact with light metal alloys. Exothermic reactions with strong acids.
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### 10.5. Incompatible materials

<b>Incompatible materials</b>	Acids, light metals.
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### 10.6. Hazardous decomposition products

<b>Decomposition products</b>	None known.
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## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

LD50 Rat, oral	1350 mg/kg
LD50 Rabbit, skin	1350 mg/kg
LC50 Mouse, inhalation (vapour)	4800 mg/l

<b>Inhalation</b>	Can cause irritation in the respiratory tract, coughing and breathing difficulties.
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<b>Oral</b>	Very corrosive. Can cause serious damage to organs undiluted.
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<b>Skin</b>	Very corrosive. Can cause serious skin damage undiluted.
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<b>Eyes</b>	Corrosive. Can cause serious eye irritation.
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## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Sodium hydroxide 30%

LC50 Fish, 96 h	196 mg/l
LD50 Daphnia magna, 48 h	40,4 mg/l
LD50 Photobacterium phosphoreum (algae), 0,25 h	22 mg/l

### 12.2. Persistence and degradability

<b>Degradability</b>	Not applicable.
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### 12.3. Bioaccumulative potential

**Bioaccumulation** No data available.

### 12.4. Mobility in soil

**Mobility** The substance is completely soluble in water. Not classified as dangerous to the environment. The undiluted product has a high pH-value (>12,5) and can have dangerous, local effects which decrease as the substance dilutes in the environment.

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

**PBT/vPvB** The substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher.

### 12.6. Other adverse effects

**Other effects** None known.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Information** Do not discharge into the environment.

**Methods** Offer surplus and non-recyclable solutions to a licensed disposal company.

## 14. TRANSPORT INFORMATION

### 14.1. International regulations

#### - ADN/IATA/IACO

**UN number** UN 1824  
**Hazard class** 8  
**Packing group** II  
**Label** 8 – Corrosive  
**Proper shipping name** SODIUM HYDROXIDE SOLUTION

#### - IMDG

**UN number** UN1824  
**Hazard class** 8  
**Packing group** II  
**Label** 8 – Corrosive  
**EmS** F-A  
S-B  
**Proper shipping name** SODIUM HYDROXIDE SOLUTION

#### - ADR/RID

**UN number** UN1824  
**Hazard class** 8  
**Packing group** II  
**Label** 8 – Corrosive  
**HI/UN number** 80/1823  
**Proper shipping name** SODIUM HYDROXIDE SOLUTION

#### - Label for transportation



## 15. REGULATORY INFORMATION

### 15.1.1. EU Regulations

- This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2. Chemical Safety Assessment

**Assessment** For this product a chemical safety assessment was not carried out.

## 16. OTHER INFORMATION

**Danger phrases** H290 – May be corrosive to metals.  
H314 – Causes severe skin burns and eye damage.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Iceland Oil Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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