

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/18/2019


Version 12

Reviewed on 09/18/2019

## 1 Identification

- **Product identifier**
- **Trade name: Alfa Neutra**
- **Application of the substance / the mixture** Alkaline cleaner/ detergent
- **Details of the supplier of the safety data sheet**
- **Supplier:**  
Alfa Laval Lund AB  
Box 74  
SE-221 00 Lund  
Sweden  
+46 46 36 65 00  
info.se@alfalaval.com
- **Information department:**  
For additional questions regarding safety data sheets please contact your local Alfa Laval Sales Company which you find on [www.alfalaval.com](http://www.alfalaval.com) or in safety data sheet under section 16: Other Informaion
- **Emergency telephone number:** US and Canada: 911

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Met. Corr.1 H290 May be corrosive to metals.  
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**  

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
sodium hydroxide
- **Hazard statements**  
H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**  
P260 Do not breathe mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 If on skin (or hair): 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. Continue rinsing.  
P310 Immediately call a poison center/doctor/.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 2)

US



# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

**Trade name: Alfa Neutra**· **vPvB:** Not applicable.

(Contd. of page 1)

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture: consisting of the following components.

**Dangerous components:**

CAS: 1310-73-2	sodium hydroxide	25-50%
	Met. Corr.1, H290; Skin Corr. 1A, H314; Acute Tox. 4, H302	

## 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
Corrosive effects. Can cause permanent eye damage.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Water  
Foam  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
See Section 8 for information on personal protection equipment.

(Contd. on page 3)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

**Trade name: Alfa Neutra**

(Contd. of page 2)

Wear protective equipment. Keep unprotected persons away.

Do not breathe vapour.

Do not get in eyes, on skin, or on clothing.

· **Environmental precautions:**

Dilute with plenty of water.

Send for recovery or disposal in suitable receptacles.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

All components have the value 0.5 mg/m<sup>3</sup>.

· **PAC-2:**

All components have the value 5 mg/m<sup>3</sup>.

· **PAC-3:**

All components have the value 50 mg/m<sup>3</sup>.

### 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

When diluting, always stir the product into standing water, not water to product.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

When using do not eat, drink or smoke.

See Section 8 for information on personal protection equipment.

Avoid contact with skin and eyes.

Ensure that washing facilities are available at the work place.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a dry place.

Store only in the original receptacle.

· **Information about storage in one common storage facility:** Do not store together with acids.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **Specific end use(s)**

Industrial cleaner

Only for trade users / technical specialists

US

(Contd. on page 4)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

**Trade name: Alfa Neutra**

(Contd. of page 3)

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**CAS: 1310-73-2 sodium hydroxide**

PEL	Long-term value: 2 mg/m <sup>3</sup>
REL	Ceiling limit value: 2 mg/m <sup>3</sup>
TLV	Ceiling limit value: 2 mg/m <sup>3</sup>

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Use only in well-ventilated areas.

In case of insufficient ventilation, wear suitable respiratory equipment.

- **Breathing equipment:**

Use suitable respiratory protective device only when aerosol or mist is formed.

Filter P2



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Natural rubber, NR

Chloroprene rubber, CR

Recommended thickness of the material:  $\geq 1$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

Trade name: Alfa Neutra

(Contd. of page 4)

· **Eye protection:**

Tightly sealed goggles

· **Body protection:**Use protective suit.  
(EN 1406)

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Fluid
Color:	Colorless
· Odor:	Product specific
· Odor threshold:	Not determined.

· **pH-value at 20 °C (68 °F):** 12.7· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100 °C (>212 °F)

· **Flash point:** Not applicable.· **Flammability (solid, gaseous):** Not applicable.· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Vapor pressure:** Not determined.· **Density at 20 °C (68 °F):** 1.28 g/cm<sup>3</sup> (10.6816 lbs/gal)· **Relative density** Not determined.· **Vapor density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with**· **Water:** Fully miscible.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

· **Solvent content:**· **Organic solvents:** 0.0 %

(Contd. on page 6)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

Trade name: Alfa Neutra

(Contd. of page 5)

· **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**  
Reacts with acids.  
Forms heat.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Heating occurs when water is added.  
Reacts with acids.  
Reacts with certain metals.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Refer to section 10.3 above.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

**CAS: 1310-73-2 sodium hydroxide**

Oral	LD50	2,000 mg/kg (rat)
	LDLo	500 mg/kg (rabbit) (LDLo)

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:**  
May cause irreversible eye damage  
Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

US

(Contd. on page 7)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

Trade name: Alfa Neutra

(Contd. of page 6)

### 12 Ecological information

#### · Toxicity

CAS: 1310-73-2 sodium hydroxide

EC50

&gt;100 mg/L (daphnia) (OECD Guideline 202 (Daphnia sp. Acute Immobilisati))

LC50

189 mg/L (Fish) (OECD Guideline 203 (Fish, Acute Toxicity Test))

Germ Cell Mutagenicity (Bacterial mutation assay)

(Pseudomonas putida) (Bacterial Forward Mutation Assay)

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

#### · Additional ecological information:

##### · General notes:

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

##### · Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

#### · Waste treatment methods

##### · Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

##### · Uncleaned packagings:

##### · Recommendation:

Rinse cautiously with water for several minutes.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

US

(Contd. on page 8)

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/18/2019



Version 12

Reviewed on 09/18/2019

**Trade name: Alfa Neutra**

(Contd. of page 7)

### 14 Transport information

<ul style="list-style-type: none"> <li>· UN-Number</li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	<p>UN1824</p>
<ul style="list-style-type: none"> <li>· UN proper shipping name</li> <li>· DOT</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	<p>Sodium hydroxide solution 1824 SODIUM HYDROXIDE SOLUTION SODIUM HYDROXIDE SOLUTION</p>
<ul style="list-style-type: none"> <li>· Transport hazard class(es)</li> <li>· DOT</li> </ul>	<p></p>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>8 Corrosive substances 8</p>
<ul style="list-style-type: none"> <li>· ADR, IMDG, IATA</li> </ul>	<p></p>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>8 Corrosive substances 8</p>
<ul style="list-style-type: none"> <li>· Packing group</li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	<p>II</p>
<ul style="list-style-type: none"> <li>· Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	<p>No</p>
<ul style="list-style-type: none"> <li>· Special precautions for user</li> <li>· Danger code (Kemler):</li> <li>· EMS Number:</li> <li>· Segregation groups</li> <li>· Stowage Category</li> <li>· Segregation Code</li> </ul>	<p>Warning: Corrosive substances 80 F-A,S-B Alkalis A SG35 Stow "separated from" SGG1-acids</p>
<ul style="list-style-type: none"> <li>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· Transport/Additional information:</li> <li>· DOT</li> <li>· Quantity limitations</li> </ul>	<p>On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L</p>
<ul style="list-style-type: none"> <li>· ADR</li> <li>· Excepted quantities (EQ)</li> </ul>	<p>Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</p>

(Contd. on page 9)





## Safety Data Sheet

acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

Trade name: Alfa Neutra

(Contd. of page 8)

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | <p>1L<br/>Code: E2<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 500 ml</p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>  | <p>UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II</p>   |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
EU regulation (EC) no 1272/2008 (CLP)  
EC DIRECTIVE 2008/98/EC (waste)  
EU Regulation (EC) no.1907/2006 (REACH)

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 10)

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

**Trade name: Alfa Neutra**

(Contd. of page 9)

· **Hazard pictograms**



· **Signal word** Danger

· **Hazard-determining components of labeling:**

sodium hydroxide

· **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

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

P303+P361+P353 If on skin (or hair): 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. Continue rinsing.

P310 Immediately call a poison center/doctor/.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**LIMITATION OF LIABILITY**

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

[www.alfalaval.com](http://www.alfalaval.com)

Please contact your local Alfa Laval Sales Company for further questions:

· **Department issuing SDS:** Alfa Laval Corporate Standards & Regulatory Operations

· **Contact:**

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(Contd. on page 11)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

**Trade name: Alfa Neutra**

(Contd. of page 10)

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• **Date of preparation / last revision** 09/18/2019 / 3

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)

(Contd. on page 12)



## Safety Data Sheet acc. to OSHA HCS

Printing date 09/18/2019

Version 12

Reviewed on 09/18/2019

**Trade name: Alfa Neutra**

(Contd. of page 11)

PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Met. Corr. 1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A

**\* Data compared to the previous version altered.**

US