

Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

1 Identification

- **Product identifier**
- **Trade name: Alfa Neutra**
- **Article number:** 3180126124
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Alkaline cleaner/ detergent
- **Details of the supplier of the safety data sheet**
- **Supplier:**
Alfa Laval Technologies AB
SE-221 00 Lund
Sweden
+46 46 36 65 00
info.se@alfalaval.com

Australian supplier:
Alfa Laval Australia Pty Ltd
Locked Bag 40, Blacktown Business Centre
NSW - NSW-2148 Blacktown
Australia
Visit: 14 Healey Circuit, - NSW - NSW-2148 Huntingwood
Tel switchboard: +61 2 8822 2700 - Fax switchboard: +61 2 8822 2799
www.alfalaval.com.au
australia.info@alfalaval.com
- **Further information obtainable from:**
For further questions regarding the safety data sheet, please contact your local Alfa Laval Sales Company which you find at www.alfalaval.com or in section 16 "Other Information" in the end of the safety data sheet
- **Emergency telephone number:**
Call 000 or 112 and ask for poison information.
Australian Poisons Information Centre Tel:13 11 26

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.
Eye Dam. 1 H318 Causes serious eye damage.
- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**

- **Signal word** Danger
- **Hazard-determining components of labelling:**
sodium hydroxide

(Contd. on page 2)



Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 1)

Hazard statements

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

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards**Results of PBT and vPvB assessment**

- PBT:** The product is not, nor contains, a substance that is, PBT.
- vPvB:** The product is not, nor contains a substance that is, vPvB.

3 Composition and Information on Ingredients

Chemical characterisation: Mixtures

- Description:** Mixture: consisting of the following components.

Dangerous components:

CAS: 1310-73-2	sodium hydroxide	Met. Corr.1, H290; Skin Corr. 1A, H314	20-40%
----------------	------------------	--	--------

- Additional information:** For the wording of the listed hazard phrases refer to section 16.

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 if symptoms persist.
- 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.
- 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.

AU

(Contd. on page 3)



Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 2)

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.
 - 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 neutralising 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.

7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**
 - When diluting always pour product into water and not vice versa.
 - 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 fire - and explosion protection:** 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.

(Contd. on page 4)

Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 3)

- 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 container tightly sealed.
- **Specific end use(s)**
Industrial cleaner
Only for trade users / technical specialists

8 Exposure controls and personal protection

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

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 1310-73-2 sodium hydroxide

WES	Peak limitation: 2 mg/m ³
-----	--------------------------------------

· **DNELs**

CAS: 1310-73-2 sodium hydroxide

Oral	DNEL - Long term, Systemic effects	2.3 mg/kg bw/day (Worker)
Inhalative	DNEL - Long term, Local effects	1 mg/m3 (Worker)

· **PNECs**

CAS: 1310-73-2 sodium hydroxide

PNEC	6.4 mg/L (Freshwater)
	23 mg/L (Freshwater sediment)
	0.64 mg/L (Saltwater)
	2.3 mg/L (Saltwater sediment)
	51 mg/L (Water treatment plant)
	0.853 mg/L (Soil)

- **Additional information:** The lists valid during the making 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.

· **Respiratory protection:**

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 self-contained respiratory protective device.

(Contd. on page 5)

Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 4)

· **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: ≥ 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.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**

Use protective suit.
(EN 1406)

· **Limitation and supervision of exposure into the environment**

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

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Fluid
· Colour:	Colourless
· Odour:	Product specific
· Odour threshold:	Not determined.

· **pH-value at 20 °C:** 12.7

· **Change in condition**

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	>100 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

(Contd. on page 6)



Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 5)

· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not applicable.
Upper:	Not applicable.
· Oxidising properties	Not applicable.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.28 g/cm ³
· Relative density	Not determined.
· Vapour 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 %
· 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.

AU

(Contd. on page 7)

Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 6)

11 Toxicological Information

· **Information on toxicological effects**

· **Acute toxicity**

CAS: 1310-73-2 sodium hydroxide

Oral	LDLo	500 mg/kg (Rabbit) (LDLo)
------	------	---------------------------

· **LD/LC50 values relevant for classification:**

CAS: 1310-73-2 sodium hydroxide

Oral	LD50	2,000 mg/kg (Rat)
------	------	-------------------

· **Primary irritant effect:**

· **Skin corrosion/irritation** Strong caustic effect on skin and mucous membranes.

· **Serious eye damage/irritation**

May cause irreversible eye damage
Strong caustic effect.

· **Respiratory or skin sensitisation** No sensitising effects known.

· **Additional toxicological information:**

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**

CAS: 1310-73-2 sodium hydroxide

LC50 (48 h)	189 mg/L (Fish) (OECD Guideline 203 (Fish, Acute Toxicity Test))
-------------	--

EC50	>100 mg/L (Daphnia) (OECD Guideline 202 (Daphnia sp. Acute Immobilisati))
------	---

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **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 together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:**

Rinse cautiously with water for several minutes.

(Contd. on page 8)

Safety Data Sheet

according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 7)

Packagings that may not be cleansed are to be disposed of in the same manner as the product.
 · **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

· UN-Number	UN1824
· ADG, IMDG, IATA	
· UN proper shipping name	1824 SODIUM HYDROXIDE SOLUTION
· ADG	SODIUM HYDROXIDE SOLUTION
· IMDG, IATA	
· Transport hazard class(es)	
· ADG, IMDG, IATA	
	
· Class	8 Corrosive substances.
· Label	8
· Packing group	
· ADG, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Corrosive substances.
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· Segregation groups	Alkalis
· Stowage Category	A
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1L

(Contd. on page 9)

Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 8)

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

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

- **Standard for the Uniform Scheduling of Medicines and Poisons**

All substances have the value S5, S6, S10.

- **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



- **Signal word** Danger

- **Hazard-determining components of labelling:**

sodium hydroxide

- **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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

AU

(Contd. on page 10)



Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 9)

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

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

· **Relevant phrases**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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

· **Contact:**

Argentina: alfa.consulta@alfalaval.com

Australia: australia.info@alfalaval.com

Austria: info.mideurope@alfalaval.com

Belgium: benelux.info@alfalaval.com

Bolivia: alfa.consulta@alfalaval.com

Brazil: alfalaval.br@alfalaval.com

Bulgaria: bulgaria.info@alfalaval.com

Canada: alfacan.info@alfalaval.com

Chile: chile.informacion@alfalaval.com

China: china.info@alfalaval.com

Colombia: info.colombia@alfalaval.com

Croatia: hrvatska.info@alfalaval.com

Czech Republic: czechrepublic.info@alfalaval.com

Denmark: info.nordic.dk@alfalaval.com

Egypt: alme.marketing@alfalaval.com

Estonia: estonia.info@alfalaval.com

Finland: info.fi@alfalaval.com

France: environnement@alfalaval.com

Germany: info.mideurope@alfalaval.com

Greece: greece.info@alfalaval.com

Hungary: info.hu@alfalaval.com

India: india.info@alfalaval.com

Indonesia: alfalindo@alfalaval.com

Israel: israel.info@alfalaval.com

Italy: alfalaval.italia@alfalaval.com

Japan: hp.alfajp@alfalaval.com

Latvia: latvia.info@alfalaval.com

Lithuania: lithuania.info@alfalaval.com

Malaysia: malaysia.info@alfalaval.com

Mexico: mexico.info@alfalaval.com

(Contd. on page 11)



Safety Data Sheet according to WHS Regulations

Printing date 12.04.2022

Version number 13

Revision: 12.04.2022

Trade name: Alfa Neutra

(Contd. of page 10)

The Netherlands: benelux.info@alfalaval.com
New Zealand: newzealand.info@alfalaval.com
Norway: info.no@alfalaval.com
Peru: ventas.peru@alfalaval.com
Philippines: philippines.info@alfalaval.com
Poland: poland.info@alfalaval.com
Portugal: portugal.info@alfalaval.com
Qatar: alme.marketing@alfalaval.com
Romania: romania.info@alfalaval.com
Russia: moscow.response@alfalaval.com
Singapore: al.singapore@alfalaval.com
Slovak Republic: slovakia.info@alfalaval.com
Slovenia: slovenija.info@alfalaval.com
South Africa: info.sa@alfalaval.com
Spain: info.spain@alfalaval.com
Sweden: info.se@alfalaval.com
Switzerland: info.mideurope@alfalaval.com
Taiwan: taiwan.info@alfalaval.com
Thailand: thailand.info@alfalaval.com
Turkey: turkey@alfalaval.com
Ukraine: ukraine.info@alfalaval.com
United Arab Emirates: alme.marketing@alfalaval.com
United Kingdom: general.uk@alfalaval.com
United States: customerservice.usa@alfalaval.com
Venezuela: venezuela.info@alfalaval.com
Vietnam: vietnam.info@alfalaval.com

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Met. Corr. 1: Corrosive to metals – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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