

# Safety Data Sheet

## according to WHS Regulations

Printing date 12.04.2022

Version number 12

Revision: 06.04.2022

### 1 Identification

- **Product identifier**
- **Trade name: Alfa Caus**
- **Article number:** 3180126126, 3180126172, 3284000606
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Industrial cleaner
- **Details of the supplier of the safety data sheet**
- **Supplier:**

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

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+46 46 36 65 00

[info.se@alfalaval.com](mailto:info.se@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](http://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

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· **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.

Phosphonate	<5.00%
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· **Dangerous components:**

CAS: 1310-73-2	sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314	10-20%
CAS: 657-84-1	sodium toluene-4-sulphonate Skin Irrit. 2, H315; Eye Irritation 2A, H319; STOT SE 3, H335	5-<10%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

phosphonates	<5%
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· **Additional information:**

<5% Non ionic tensides  
Phosphonates  
For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

· **Description of first aid measures**

· **General information:**

Wash contaminated clothing before reuse.  
Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air or oxygen; call for doctor.

· **After skin contact:**

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.  
Call a doctor immediately.

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- **After eye contact:**  
Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **After swallowing:**  
Drink plenty of water and provide fresh air. Call for a doctor immediately.  
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.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Water  
Foam  
Fire-extinguishing powder  
Carbon dioxide  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters** Cool endangered receptacles with water spray.
- **Protective equipment:**  
Wear fully protective suit.  
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:**  
Do not allow to enter sewers/ surface or ground water.  
Send for recovery or disposal in suitable receptacles.
- **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.

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### 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.  
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:**  
Keep container tightly closed.  
Keep only in original container.  
Store in a dry place.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**  
Protect from frost.  
Keep container tightly sealed.
- **Specific end use(s)**  
Industrial cleaner  
Professional use only.

### 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<sup>3</sup>

- **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/m<sup>3</sup> (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.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 No further data; see item 7.  
 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:**

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.

- **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**

Chloroprene rubber, CR

Natural rubber, NR

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:**



Face protection



Tightly sealed goggles

- **Body protection:**

Use protective suit.

Alkaline resistant protective clothing

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- **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:**

· <b>Form:</b>	Liquid
· <b>Colour:</b>	Yellowish
· <b>Odour:</b>	Undistinguishable.

- **pH-value at 20 °C:** 13-14

- **Change in condition**

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

- **Flash point:** >100 °C

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

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

- **Oxidising properties** Not applicable.

- **Vapour pressure:** Not determined.

· <b>Density at 20 °C:</b>	1.17 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.

- **Solubility in / Miscibility with water:**

Fully miscible.

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**

· <b>Dynamic:</b>	Not applicable. Not determined.
· <b>Kinematic:</b>	Not applicable. Not determined.

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

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### 10 Stability and Reactivity

- **Reactivity**  
Reacts with acids.  
Forms heat.
- **Chemical stability**  
Stable under normal temperature conditions and under recommended usage and storage.
- **Possibility of hazardous reactions**  
Violent reaction with water at higher temperatures.  
Corrosive action on metals.  
Reacts with base metals forming hydrogen.
- **Conditions to avoid** Do not store together with acids.
- **Incompatible materials:** Store away from metals.
- **Hazardous decomposition products:** Poisonous gases/vapours

### 11 Toxicological Information

- **Information on toxicological effects**

- **Acute toxicity**

<b>CAS: 1310-73-2 sodium hydroxide</b>		
Oral	LDLo	500 mg/kg (Rabbit) (LDLo)

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

<b>CAS: 1310-73-2 sodium hydroxide</b>		
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**

Risk of serious damage to eyes.

Strong caustic effect.

Irritating effect.

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

- **Additional toxicological information:**

Causes severe burns.

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **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:**

<b>CAS: 1310-73-2 sodium hydroxide</b>		
LC50 (48 h)	189 mg/L (Fish)	(OECD Guideline 203 (Fish, Acute Toxicity Test))

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EC50	>100 mg/L (Daphnia) (OECD Guideline 202 (Daphnia sp. Acute Immobilisati))
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- **Persistence and degradability**  
The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:**
- **Type of test**    **Effective concentration**    **Method**    **Assessment**  
1310-73-2 Sodium hydroxide: Short-term toxicity to aquatic invertebrates: Ceriodaphnia sp., Reliability: 2 (reliable with restrictions), Salinity: 500 µS/cm, Duration: 48 h, Endpoint: EC50, Effect concentration: 40.4 mg/L, Author: Warne M.St.J. and A.D. Schifko, Year: 1999, Title: Toxicity of Laundry Detergent Components to a Freshwater Cladoceran and their Contribution to Detergent Toxicity Bibliographic source: Ecotoxicology and Environmental Safety,44, 196-206.
- **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**  
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.  
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

- |   |  |
|---|--|
| · <b>UN-Number</b>  |  |
| · <b>ADG, IMDG, IATA</b>  | UN1824                                 |
| · <b>UN proper shipping name</b>  |  |
| · <b>ADG</b>  | 1824 SODIUM HYDROXIDE SOLUTION mixture |
| · <b>IMDG, IATA</b>   | SODIUM HYDROXIDE SOLUTION mixture      |
| · <b>Transport hazard class(es)</b>   |  |
| · <b>ADG, IMDG, IATA</b>  |  |
|  |  |
| · <b>Class</b>  | 8 Corrosive substances.                |

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· Label	8
· Packing group · ADG, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B Alkalis A 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) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category · Tunnel restriction code	2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1824 SODIUM HYDROXIDE SOLUTION MIXTURE, 8, II

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture  
(EC) nr 648/2004 (detergents)

#### · Australian Inventory of Industrial Chemicals

CAS: 1310-73-2 | sodium hydroxide

CAS: 657-84-1 | sodium toluene-4-sulphonate

#### · Standard for the Uniform Scheduling of Medicines and Poisons

CAS: 1310-73-2 | sodium hydroxide

S5, S6, S10

#### · Australia: Priority Existing Chemicals

None of the ingredients is listed.

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**· 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.

### 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.

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

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

**· Relevant phrases**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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H335 May cause respiratory irritation.

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

· **Contact:**

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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  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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