

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

Alkalisk CIP-Cleaner

**Product no.**

-

**REACH registration number**

Not applicable

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Cleaning liquid

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

Blue & Green AB  
Stenorsvägen 52  
261 44 Landskrona  
Sweden  
Tfn: +46 418 399000  
Fax: +46 418 13199  
www.blueandgreen.se

**E-mail**

info@blueandgreen.se

**SDS date**

2020-08-18

**SDS Version**

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Skin Corr. 1A; H314

Eye Dam. 1; H318

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)****Signal word**

Danger

**Hazard statement(s)**

Causes severe skin burns and eye damage. (H314)

**Precautionary statements**

General

If medical advice is needed, have product container or label at hand. (P101).

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**Prevention  
Response**

Keep out of reach of children. (P102).  
Do not breathe mist/vapours/fume/spray. (P260).  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. (P303+P361+P353).

**Storage  
Disposal**

Store locked up. (P405).  
Dispose of contents/container to an approved waste disposal plant. (P501).

**Identity of the substances primarily responsible for the major health hazards**

sodium hydroxide

**Additional labelling**

Not applicable

**Unique formula identifier (UFI)**

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**2.3. Other hazards**

Not applicable

**Additional warnings**

Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening.

**VOC (volatile organic compound)**

Not applicable

**SECTION 3: Composition/information on ingredients**

**3.1/3.2. Substances/Mixtures**

NAME: sodium hydroxide  
IDENTIFICATION NOS.: CAS-no: 1310-73-2 EC-no: 215-185-5 REACH-no: 01-2119457892-27 Index-no: 011-002-00-6  
CONTENT: 40-60%  
CLP CLASSIFICATION: Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1  
H290, H314, H318

NAME: 2-phosphonobutane-1,2,4-tricarboxylic acid  
IDENTIFICATION NOS.: CAS-no: 37971-36-1 EC-no: 253-733-5 REACH-no: 01-2119436643-39  
CONTENT: 1 - <2.5%  
CLP CLASSIFICATION: Met Corr 1, Eye Irrit 2; H290, H319

(\*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

Eye Cat. 1 Sum =  $\sum(C_i/S(G)CL_i) = 11.604 - 17.406$   
Skin Corr. 1A Sum =  $\sum(C_i/S(G)CL_i) = 6.9624 - 10.4436$

Detergent:

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

**Inhalation**

Bring the person into fresh air and stay with him/her.

**Skin contact**

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with soap and water.

**Eye contact**

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

**Ingestion**

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the

According to EC-Regulation 2015/830

injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Burns

Not applicable

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.

Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist.

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

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Some metal oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

### SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

#### 6.2. Environmental precautions

No specific requirements.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

#### 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

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

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Storage temperature

No data available.

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### OEL

sodium hydroxide

Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m<sup>3</sup>

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**DNEL / PNEC**

DNEL (sodium hydroxide): 1 mg/m3  
 Exposure: Inhalation  
 Duration of Exposure: Long term – Local effects - General population

DNEL (sodium hydroxide): 1 mg/m3  
 Exposure: Inhalation  
 Duration of Exposure: Long term – Local effects - Workers

DNEL (sodium hydroxide): 2 mg/kg bw/d  
 Exposure: Dermal  
 Duration of Exposure: Short term – Local effects - Workers

DNEL (sodium hydroxide): 2 mg/m3  
 Exposure: Inhalation  
 Duration of Exposure: Short term – Local effects - Workers

**8.2. Exposure controls**

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

**General recommendations**

Observe general occupational hygiene standards.

**Exposure scenarios**

There is no appendix to this safety data sheet.

**Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

**Appropriate technical measures**

Ensure emergency eyewash and -showers are clearly marked.

**Hygiene measures**

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

**Measures to avoid environmental exposure**

Keep containment materials near the workplace. If possible, collect spillage during work.

**Individual protection measures, such as personal protective equipment**



**Generally**

Use only CE marked protective equipment.

**Respiratory Equipment**

No specific requirements.

**Skin protection**

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

**Hand protection**

Nitrile rubber  
 Breakthrough time: > 480 minutes (Class 6)

**Eye protection**

Wear safety glasses with side shields.

**SECTION 9: Physical and chemical properties**

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

Form	Liquid
Colour	Yellowish
Odour	Faint
Odour threshold (ppm)	No data available.
pH	14
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	1.48

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<b>Phase changes</b>	
Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.
<b>Data on fire and explosion hazards</b>	
Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.
<b>Solubility</b>	
Solubility in water	Soluble
n-octanol/water coefficient	No data available.
<b>9.2. Other information</b>	
Solubility in fat (g/L)	No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

### 10.3. Possibility of hazardous reactions

Nothing special

### 10.4. Conditions to avoid

Nothing special

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance: 2-phosphonobutane-1,2,4-tricarboxylic acid

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >6500mg/kg

Substance: 2-phosphonobutane-1,2,4-tricarboxylic acid

Species: Rat

Test: NOEC

Route of exposure: Inhalation

Result: >1979mg/kg

Substance: 2-phosphonobutane-1,2,4-tricarboxylic acid

Species: Rat

Test: LD50

Route of exposure: Dermal

Result: >4000mg/kg

Substance: sodium hydroxide

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 325 mg/kg bw

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

No data available.

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**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Long term effects**

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance: sodium hydroxide  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 33-189 mg/l

Substance: sodium hydroxide  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 40-240 mg/l

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
sodium hydroxide	Yes	No data available	No data available

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BCF
sodium hydroxide	No	No data available	No data available

**12.4. Mobility in soil**

2-phosphonobutane-1,2,4-tricar...: Log Koc= -1.5054, Calculated from LogPow ().

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**12.6. Other adverse effects**

Nothing special

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product is covered by the regulations on hazardous waste.

**Waste**

EWC code

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**Specific labelling**

Not applicable

**Contaminated packing**

Contaminated packaging must be disposed of similarly to the product.

**SECTION 14: Transport information**

**14.1 – 14.4**

This product is within scope of the regulations of transport of dangerous goods.

**ADR/RID**

<b>14.1. UN number</b>	1824
<b>14.2. UN proper shipping name</b>	SODIUM HYDROXIDE SOLUTION
<b>14.3. Transport hazard class(es)</b>	8
<b>14.4. Packing group</b>	III
<b>Notes</b>	-

According to EC-Regulation 2015/830

<b>Tunnel restriction code</b>	E
<b>IMDG</b>	
UN-no.	1824
Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
Class	8
PG*	III
EmS	F-A, S-B
MP**	No
Hazardous constituent	-
<b>IATA/CAO</b>	
UN-no.	1824
Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
Class	8
PG*	III
<b>14.5. Environmental hazards</b>	
-	
<b>14.6. Special precautions for user</b>	
-	
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
No data available	
(*) Packing group	
(**) Marine pollutant	

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

#### Demands for specific education

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#### Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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#### Biocidal reg. no.

Not applicable

#### Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.  
The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.  
Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).  
Regulation (EC) 1907/2006 (REACH).

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage.  
H319 - Causes serious eye irritation.

### The full text of identified uses as mentioned in section 1

According to EC-Regulation 2015/830

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**Additional label elements**

Not applicable

**Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

**The safety data sheet is validated by**

Cecilia Evaldsson

**Date of last essential change  
(First cipher in SDS version)**

-

**Date of last minor change  
(Last cipher in SDS version)**

-