

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : **Bc 103 A**

Revision : 04.02.2020

Version (Revision) : 4.0.0 (3.0.0)

Print date : 02.07.2021

1. Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Bc 103 A

1.2 Relevant identified uses of the substance or mixture

Alcalin cleaner

Sectors of use [SU]

Professional

Industrial

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier :

bc-imarck GmbH

Street :

Mühlematten 11

Postal code/city :

4455 Zunzgen

Telephone :

+41619716361

Contact :

René Imark (info@bc-imarck.ch)

1.4 Emergency telephone number

Schweizerisches Tox-Zentrum, 24h-Notfallnr. 145, Telefon +41 44 251 51 51

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1A ; H314 - Skin corrosion/irritation : Category 1A ; Causes severe skin burns and eye damage.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

SODIUM HYDROXIDE ; CAS No. : 1310-73-2

NON-IONIC SURFACTANT

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash the skin immediately and thoroughly with plenty of water after contact or after handling.

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

P310 Immediately call a POISON CENTER/doctor

P321 Specific treatment (show medical advice the label where possible).

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P405 Store locked up.

P501 This material and its container must be disposed of in a safe way.

2.3 Other hazards

None

3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

SODIUM HYDROXIDE ; REACH No. : 01-2119457892-27 ; EC No. : 215-185-5; CAS No. : 1310-73-2

Weight fraction : 10 - 20 %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318

NON-IONIC SURFACTANT ; EC No. : Polymer

Weight fraction : 1 - 5 %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318

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Additional information

Full text of H- and EUH-phrases: see section 16.

Regulation (EC) No. 648/2004: Labelling for contents

non-ionic surfactants

< 5 %

4. First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. Keep at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact

Immediately remove any contaminated clothing, shoes or stockings. Wash with plenty of water. Keep at rest. Call a physician immediately.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Flush with plenty of water (10-15 min.). Call a physician immediately.

After ingestion

Call a physician immediately. Keep at rest. Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

5. Firefighting measures

Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

Foam Water spray jet Water mist Dry extinguishing powder Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Not combustible under normal conditions. In case of fire may be liberated: The product develops hydrogen in an aqueous solution in contact with metals.

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Inhalation of vapours or spray/mists Avoid: See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains, user solution (dilution) see also point 12.7. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

For cleaning up

Soak up inert absorbent and dispose as waste requiring special attention. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.4 Reference to other sections

None

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff. Other regulations, restrictions and prohibition regulations To follow : Normal precautions taken when handling chemicals should be observed. Keep locked up. Prevent aerosol formation. Do not breathe spray.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Notice the directions for use on the label. Keep container tightly closed. Storage temperature: 5 - 30 °C. Always close containers tightly after the removal of product. Ensure adequate ventilation of the storage area. Store in accordance with local official regulations.

Hints on joint storage

Storage class (Switzerland): 8

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Storage class (TRGS 510) : 8B

Do not store together with

Keep away from: Acid Oxidizing agent.

Further information on storage conditions

Shelf life from production: 2.5 years

7.3 Specific end use(s)

None

8. Exposure controls/personal protection

By law, the employer is obliged to carry out a risk assessment and to define suitable measures appropriate to the risk. If the threshold limit in Section 8.1 as defined by the authorities is exceeded, all the protective measures listed in Section 8.2 must be applied and regular measurements must be made in order to ensure compliance with the official threshold limits. The described measures must be applied in every situation in which a risk cannot be excluded. If the assessment shows a low risk for endangering the employees, the measures can be relaxed according to the risk.

8.1 Control parameters

Occupational exposure limit values

SODIUM HYDROXIDE ; CAS No. : 1310-73-2

Limit value type (country of origin) : MAK (CH)
Parameter : E: inhalable fraction
Limit value : 2 mg/m³
Remark : SSC
Version : 31.01.2020

Limit value type (country of origin) : STEL (CH)
Parameter : E: inhalable fraction
Limit value : 2 mg/m³
Remark : SSC
Version : 31.01.2020

Limit value type (country of origin) : STEL (CH)
Limit value : 2 mg/m³
Remark : #e SSC
Version : 01.01.2013

8.2 Exposure controls

Personal protection equipment

Wash hands before breaks and after work.

Eye/face protection

Use safety glasses or face protection to EN 166.

Skin protection

Hand protection

Suitable chemical resistant protective gloves according to ISO EN 374-1:2016: Type A or B, Permeation resistance (penetration resistance): 30 minutes. Material: Nitrile. thickness \geq 0.38 mm. Glove recommendation: Sol-Vex 37-675 (Type A, thickness 0.38 mm, test chemicals used: J,K,L,O,P,T) or Sol-Vex 37-185 (Type A, thickness 0.56 mm, test chemicals used: A,G,J,K,L,P,T) This information is based on the manufacturer's specifications. It should be noted that the daily service life of a chemical protective glove in practice (due to many influencing factors such as e.g. heat) may be shorter than the permeation time determined according to EN 374. The service life of a glove can be considerably prolonged, if it is regularly washed with soap and water after work is finished or at least rinsed off under a running tap. Rub greasy ointment into the skin.

Body protection

Wear suitable protective clothing to EN 14605, EN 20344, EN 20345: protective clothing and boots.

Respiratory protection

EN 143, EN 14387. None, if handled according to order.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : light beige (batch-related color differences possible)

Odour : odourless

Safety characteristics

Initial boiling point and boiling range : (1013 hPa) not applicable

Flash point : not applicable

Vapour pressure : (50 °C) not applicable

Density : (20 °C) 1.15 g/cm³

Solvent separation test : (20 °C) not applicable

Solubility in water : well water-solubly

pH value : (20 °C / 5 g/l) 11.7

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Viscosity;	(5 °C)	approx.	5	mPa*s
Viscosity :	(20 °C)	approx.	4	mPa*s

9.2 Other information
None

10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

10.5 Incompatible materials

Acid Keep away from: Oxidizing agent.

10.6 Hazardous decomposition products

None known.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (NON-IONIC SURFACTANT)
Exposure route :	Oral
Species :	Rat
Effective dose :	2000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (NON-IONIC SURFACTANT)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	2000 mg/kg

11.2 Information on other hazards

Other adverse effects

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Eye contact: Causes burns. Inhaling: in high concentration irritations of the mucous membranes possible. After swallowing: Causes burns at mouth, throat, mucous membrane, esophagus, stomach, intestine. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

12. Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species :	Gambusia affinis (Mosquito fish)
Effective dose :	125 mg/l
Exposure time :	96 h

Parameter :	LC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species :	Poecilia reticulata (Guppy)
Effective dose :	145 mg/l
Exposure time :	24 h

Parameter :	LC50 (NON-IONIC SURFACTANT)
Species :	Acute (short-term) fish toxicity
Effective dose :	> 100.81 mg/l
Exposure time :	96 h

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species :	Ceriodaphnia spec
Effective dose :	40.4 mg/l
Exposure time :	48 h

Parameter :	EC50 (NON-IONIC SURFACTANT)
Species :	Daphnia magna (Big water flea)
Effective dose :	> 100 mg/l
Exposure time :	48 h

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Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 (NON-IONIC SURFACTANT)
Species : Acute (short-term) toxicity to aquatic algae and cyanobacteria
Effective dose : 27.22 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (NON-IONIC SURFACTANT)
- Degree of elimination
Value 100 %
Period: 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301E

Regulation on Detergents (EC) No 648/2004, respectively Chemical Risk Reduction Regulation 814.81 (ChemRRV): 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.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

12.8 Additional ecotoxicological information

The sewage liberated during use can be emptied into drains after separation of the solid material part and with preceding neutralization. When leading acid or alkaline products into sewage disposal plants, the waste water lead in must not be above or below a ph-value of 6.5 to 9, for a displacement of the ph-value may cause disturbances in sewers and biological sewage works. Local rules have priority.

13. Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Product residues are considered as special refuse and are by the label "special refuse" and the waste code to be marked. Non-contaminated packages may be recycled.

After intended use

Waste codes/waste designations according to EWC/AVV

EU: Waste code (2008/98/EG): 20 01 15* // CH: Waste code (VeVA, SR 814.610): 20 01 15 S // AT: Waste code (ÖNORM S 2100): 52402 Lyes

14. Transport information

14.1 UN number

UN 1824

14.2 UN proper shipping name

Land transport (ADR/RID)
SODIUM HYDROXIDE, SOLUTION

Sea transport (IMDG)
SODIUM HYDROXIDE, SOLUTION

Air transport (ICAO-TI / IATA-DGR)
SODIUM HYDROXIDE, SOLUTION

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C5
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 11 · E 2
Hazard label(s) : 8

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 11 · E 2

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Hazard label(s) : 8
Air transport (ICAO-TI / IATA-DGR)
Class(es) : 8
Special provisions : E 2
Hazard label(s) : 8

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

15. Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

The product is intended for professional use.

Use restriction according to REACH annex XVII, no. : 3

National regulations

Water hazard class (WGK)

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

15.2 Chemical safety assessment

No information available.

16. Other information

16.1 Indication of changes

12. Ecological information · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 15. Restrictions on use · 15. Water hazard class (WGK)

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

16.6 Training advice

None

16.7 Additional information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The user is responsible for the observance of all required statutory provisions.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
