

Safety Data Sheet

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



Trade name : **Aqualyt BA-80 S**

Revision : 01.07.2025

Version (Revision) : 5.0.0 (4.0.0)

Print date : 10.07.2025

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

1.1 Product identifier

Aqualyt BA-80 S (30810651)

Unique Formula Identifier (UFI): K1GA-3UWJ-PW03-81Q9

1.2 Relevant identified uses of the substance or mixture

Rinse agent

Sectors of use [SU]

Professional

Industrial

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier :

Hildebrand Industry AG

Street :

Marksteinstrasse 2

Postal code/City :

8552 Felben-Wellhausen

Telephone :

+41523684515

Contact :

sales@hildebrandindustry.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]

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

2.2 Label elements

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

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

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.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

P501 Disposal: Dispose of contents to a recognized collection point for hazardous waste.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains 2-METHYLISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The PVT/vPvB criteria according to REACH, Appendix XIII, are not met.

3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

NON-IONIC SURFACTANT ; EC No. : Polymer

Weight fraction : 10 - 20 %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

CITRIC ACID ; EC No. : 201-069-1; CAS No. : 77-92-9

Weight fraction : 5 - 10 %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319 STOT SE 3 ; H335

PROPAN-2-OL ; EC No. : 200-661-7; CAS No. : 67-63-0

Weight fraction : 1 - 5 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

NON-IONIC SURFACTANT ; EC No. : Polymer

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Weight fraction : 1 - 5 %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412
POTASSIUM CUMENESULFONATE ; REACH No. : 01-2119489427-24 ; EC No. : 629-764-9 ; CAS No. : 164524-02-1
Weight fraction : 1 - 5 %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319
SODIUM CUMENESULFONATE ; REACH No. : 01-2119489411-37 ; EC No. : 239-854-6 ; CAS No. : 15763-76-5
Weight fraction : 1 - 5 %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

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

non-ionic surfactants 5 - < 15 %
pereservation agents < 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

Provide fresh air.

In case of skin contact

Wash with plenty of water.

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.).

Following 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

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

5.2 Special hazards arising from the substance or mixture

Not combustible under normal conditions.

5.3 Advice for firefighters

Special protective equipment for firefighters

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

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 eyes. When using do not eat, drink, smoke, sniff. To follow : Other regulations, restrictions and prohibition regulations
Normal precautions taken when handling chemicals should be observed.

7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep/Store only in original container. Follow the instructions 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): 10/12

Storage class (TRGS 510) : 12

Do not store together with

No special measures are necessary.

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

CITRIC ACID ; CAS No. : 77-92-9

Limit value type (country of origin) : KZG value (CH)
Parameter : E: inhalable fraction
Limit value : 4 mg/m³
Remark : SSC
Version : 31.01.2022

Limit value type (country of origin) : MAK (CH)
Parameter : E: inhalable fraction
Limit value : 2 mg/m³
Remark : SSC
Version : 31.01.2022

Limit value type (country of origin) : TRGS 900 (D)
Parameter : E: inhalable fraction
Limit value : 2 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 23.06.2022

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : KZG value (CH)
Limit value : 1000 mg/m³ / 400 ppm
Remark : SSC B
Version : 31.01.2022

Limit value type (country of origin) : MAK (CH)
Limit value : 500 mg/m³ / 200 ppm
Remark : SSC B
Version : 31.01.2022

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 200 ppm / 500 mg/m³
Peak limitation : 2(II)
Remark : Y
Version : 23.06.2022

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Acetone / Whole blood (B) / End of exposure or end of shift
Limit value : 25 mg/l
Version : 25.02.2022

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Acetone / Urine (U) / End of exposure or end of shift
Limit value : 25 mg/l
Version : 25.02.2022

8.2 Exposure controls

Personal protection equipment

Wash hands before breaks and after work.

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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 ≥ 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.

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 : Liquid

Colour : colourless (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)	1.035 g/cm ³
Solvent separation test :	(20 °C)	not applicable
Solubility in water :		well water-solubly
pH :		2.0
pH :	(20 °C / 10 g/l)	approx. 6.2
Viscosity;	(5 °C)	approx. 12 mPa*s
Viscosity :	(20 °C)	approx. 8 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

No information available.

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 :	> 1000 mg/kg
Parameter :	LD50 (NON-IONIC SURFACTANT)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route :	Oral
Species :	Rat

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Effective dose : 7000 mg/kg
Parameter : LD50 (SODIUM CUMENESULFONATE ; CAS No. : 15763-76-5)
Exposure route : Oral
Species : Rat
Effective dose : 7000 mg/kg
Parameter : LD50 (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route : Oral
Species : Rat
Effective dose : 9999.99 mg/kg
Parameter : LD50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route : Oral
Species : Rat
Effective dose : 5840 mg/kg

Acute dermal toxicity

Parameter : LD50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route : Dermal
Species : Rat
Effective dose : 2000 mg/kg
Parameter : LD50 (SODIUM CUMENESULFONATE ; CAS No. : 15763-76-5)
Exposure route : Dermal
Species : Rat
Effective dose : 2000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route : Inhalation
Species : Rat
Effective dose : 6410 mg/m³
Parameter : LC50 (SODIUM CUMENESULFONATE ; CAS No. : 15763-76-5)
Exposure route : Inhalation
Species : Rat
Effective dose : 6410 mg/m³

11.2 Information on other hazards

Other adverse effects

According to our experience no damage to health has appeared even in case of long lasting contact. 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 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Pimephales promelas (fathead minnow)
Effective dose : 9.64 mg/l
Exposure time : 96 h
Parameter : LC50 (NON-IONIC SURFACTANT)
Species : Leuciscus idus (golden orfe)
Effective dose : 1 - 10 mg/l
Exposure time : 96 h
Parameter : LC50 (NON-IONIC SURFACTANT)
Species : Leuciscus idus (golden orfe)
Effective dose : 1 - 10 mg/l
Exposure time : 96 h
Parameter : LC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species : Acute (short-term) fish toxicity
Effective dose : 1000 mg/l
Exposure time : 96 h
Parameter : LC50 (SODIUM CUMENESULFONATE ; CAS No. : 15763-76-5)
Species : Acute (short-term) fish toxicity
Effective dose : 1000 mg/l

Acute (short-term) toxicity to crustacea

Parameter : EC50 (NON-IONIC SURFACTANT)
Species : Daphnia magna (Big water flea)
Effective dose : 1 - 10 mg/l
Exposure time : 48 h
Parameter : EC50 (NON-IONIC SURFACTANT)

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Species : Daphnia magna (Big water flea)
Effective dose : 1 - 10 mg/l
Exposure time : 48 h
Parameter : EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species : Acute (short-term) toxicity to crustacea
Effective dose : 1000 mg/l
Exposure time : 48 h
Parameter : EC50 (SODIUM CUMENESULFONATE ; CAS No. : 15763-76-5)
Species : Acute (short-term) toxicity to crustacea
Effective dose : 1000 mg/l

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : EC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Daphnia magna (Big water flea)
Effective dose : 10000 mg/l
Exposure time : 48 h

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Desmodesmus subspicatus
Effective dose : > 100 mg/l
Exposure time : 72 h
Parameter : EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species : Acute (short-term) toxicity to algae and cyanobacteria
Effective dose : 230 mg/l
Exposure time : 96 h
Parameter : EC50 (SODIUM CUMENESULFONATE ; CAS No. : 15763-76-5)
Species : Acute (short-term) toxicity to algae and cyanobacteria
Effective dose : 230 mg/l

12.2 Persistence and degradability

Biodegradation

Parameter : CO2 formation (% of the theoretical value) (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Value : 100 %
Period: 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B
Parameter : CO2 formation (% of the theoretical value) (SODIUM CUMENESULFONATE ; CAS No. : 15763-76-5)
Value : 100 %
Period: 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B
Parameter : BOD (% of ThOD) (NON-IONIC SURFACTANT)
Value : > 60 %
Period: 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301F
Parameter : Bismuth-active substance (NON-IONIC SURFACTANT)
Value : >= 90 %
Method : OECD 301E
Parameter : CO2 formation (% of the theoretical value) (NON-IONIC SURFACTANT)
Value : > 60 %
Period: 28 D
Method : OECD 301B
Parameter : Bismuth-active substance (NON-IONIC SURFACTANT)
Value : >= 90 %
Method : OECD 303A

Regulation on Detergents (EC) No 648/2004

The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 and Chemical Risk Reduction Regulation 814.81 (ChemRRV) 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.

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12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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 without preceeding neutralization.

13. Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

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 30 // CH: Waste code (VeVA, SR 814.610): 20 01 30 // AT: Waste code (ÖNORM S 2100): 59402 Cleaning agent residues

14. Transport information

14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

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.

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 40, 75

National regulations

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 5 - 10 %

Water hazard class

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

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 07. Hints on joint storage - Storage class

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)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

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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.
