Safety Data Sheet

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

HILDEBRAND INDUSTRY

Trade name : **Aqualyt HI 35**

Revision : 02.06.2025 **Version (Revision) :** 7.0.0 (6.0.0)

Print date : 12.06.2025

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

1.1 Product identifier

Aqualyt HI 35 (30810838)

Unique Formula Identifier (UFI): R6U9-6UFU-WW0R-FK8S

1.2 Relevant identified uses of the substance or mixture

Alcalin cleaner with active chlorine

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]

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

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

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms

Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

DISODIUM METASILICATE ; CAS No. : 6834-92-0

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

SODIUM HYPOCHLORITE SOLUTION % CL ACTIVE ; CAS No. : 7681-52-9

Hazard statements

H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe vapors.
P264	Wash the skin immediately and thoroughly with plenty of water after contact or after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor
P321	Special treatment (show the label or safety data sheet to the doctor).
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.
P405	Store locked up.
P501	Disposal: Dispose of contents to a recognized collection point for hazardous waste.

Supplemental hazard information

EUH031	Contact with acids liberates toxic gas.

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

DISODIUM METASILICATE ; EC No. : 229-912-9; CAS No. : 6834-92-0

Weight fraction : 5 - 10 %

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 STOT SE 3 ; H335

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

Weight fraction : 1 - 5 %

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

SODIUM HYPOCHLORITE SOLUTION % CL ACTIVE ; REACH No. : 01-2119488154-34 ; EC No. : 231-668-3; CAS No. : 7681-52-9

Weight fraction : 1 - 5 %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 STOT SE 3 ; H335 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410 EUH031

Additional information

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

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

phosphates	< 5 %
chlorine-based bleaching 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

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 but breathing normally, 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.

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

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

5.2 Special hazards arising from the substance or mixture

Not combustible under normal conditions. In case of fire may be liberated:

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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. Avoid: Inhalation of vapours or spray/mists 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. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Always close containers tightly after the removal of product. Storage temperature: 5 - 25 °C. Store coolly and frost-protected. Protect from heat and direct sunlight. Ensure adequate ventilation of the storage area. Store in accordance with local official regulations.

Hints on joint storage

Storage class (Switzerland): 8
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: 18 months

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 HYPOCHLORITE SOLUTION % CL ACTIVE ; CAS No. : 7681-52-9

Limit value type (country of origin) :	KZG value (CH)
Limit value :	1.5 mg/m³ / 0.5 ppm
Remark :	Chlor (CAS: 7782-50-5)
Version :	31.01.2022
Limit value type (country of origin) :	MAK (CH)
Limit value :	1.5 mg/m³ / 0.5 ppm
Remark :	Chlor (CAS: 7782-50-5)
Version :	31.01.2022

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

Limit value type (country of origin) :	KZG value (CH)
Parameter :	E: inhalable fraction
Limit value :	2 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

SODIUM HYPOCHLORITE SOLUTION % CL ACTIVE ; CAS No. : 7681-52-9

Limit value type (country of origin) :	STEL (D)
Limit value :	0.5 ppm / 1.5 mg/m³
Remark :	Chlor (CAS: 7782-50-5)
Version :	
Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	0.5 ppm / 1.5 mg/m³
Remark :	Chlor (CAS: 7782-50-5)
Version :	

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 >= 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 : Liquid
Colour : light yellow (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)		1.203	g/cm³
Solvent separation test :	(20 °C)		not applicable	
Solubility in water :			well water-solubly	
pH :			13.8	
pH value :	(20 °C / 5 g/l)		10.3	
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

Inorganic and organic acids

10.6 Hazardous decomposition products

Chlorine

11. Toxicological information

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

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (SODIUM HYPOCHLORITE SOLUTION % CL ACTIVE ; CAS No. : 7681-52-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 1100 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	LD50 (SODIUM HYPOCHLORITE SOLUTION % CL ACTIVE ; CAS No. : 7681-52-9)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 20000 mg/kg
Method :	OECD 402

Acute inhalation toxicity

Parameter :	LC50 (SODIUM HYPOCHLORITE SOLUTION % CL ACTIVE ; CAS No. : 7681-52-9)
Exposure route :	Inhalation
Species :	Rat

Effective dose :	> 10.5 mg/l
Exposure time :	1 h
Method :	OECD 403

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. Induces narcotic effect. The inhalation of dust/mist or aerosols causes irritation of the respiratory tract. 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 (SODIUM HYPOCHLORITE SOLUTION % CL ACTIVE ; CAS No. : 7681-52-9)
Species :	Fish
Effective dose :	0.06 mg/l
Exposure time :	96 h
Parameter :	EC50 (SODIUM HYPOCHLORITE SOLUTION % CL ACTIVE ; CAS No. : 7681-52-9)
Species :	Daphnia magna (Big water flea)
Effective dose :	0.141 mg/l
Exposure time :	48 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

12.2 Persistence and degradability

No information available.

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

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

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. 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 or ID number

UN 3266

14.2 UN proper shipping name

Land transport (ADR/RID)
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE · SODIUM HYDROXIDE, SOLUTION)

Sea transport (IMDG)
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE · SODIUM HYDROXIDE, SOLUTION)

Air transport (ICAO-TI / IATA-DGR)
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE · 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 5 l · E 1
Hazard label(s) :	8

Sea transport (IMDG)

Class(es) :	8
EmS-No. :	F-A / S-B
Special Provisions :	LQ 5 l · E 1
Hazard label(s) :	8

Air transport (ICAO-TI / IATA-DGR)

Class(es) :	8
Special Provisions :	E 1
Hazard label(s) :	8

14.4 Packing group
III

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.

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)
Use restriction according to REACH annex XVII, no. : 3, 75

National regulations

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. Label elements · 07. Hints on joint storage - Storage class · 08. Occupational exposure limit values · 15. Restrictions on use

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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

EUH031	Contact with acids liberates toxic gas.

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.