

# Safety Data Sheet

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

Trade name : **Aqualyt HI 35**

Revision : 23.06.2017

Version (Revision) : 4.0.0 (3.0.0)

Print date : 06.07.2017

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

### 1.1 Product identifier

Aqualyt HI 35 (30810838)

### 1.2 Relevant identified uses of the substance or mixture

Alcalin cleaner with active chlorine

### 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

#### Telefax :

0523684699

#### Contact :

Jessica Imhof (service@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 Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

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

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.

##### 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/shower.

P405 Store locked up.

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

##### Supplemental Hazard information (EU)

EUH031 Contact with acids liberates toxic gas.

### 2.3 Other hazards

None

## 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 registration No. : 01-2119457892-27 ; EC No. : 215-185-5; CAS No. : 1310-73-2

Weight fraction : 1 - 2 %

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Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318  
SODIUM HYPOCHLORITE SOLUTION % CL ACTIVE ; REACH registration No. : 01-2119488154-34 ; EC No. : 231-668-3 ; CAS No. : 7681-52-9  
Weight fraction : 1 - 3 %  
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 STOT SE 3 ; H335 Aquatic Acute 1 ; H400

#### Additional information

Full text of H- and EUH-phrases: 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 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

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

In case of fire: 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. 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

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## 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. Ensure adequate ventilation of the storage area. Store in accordance with local official regulations.

## Hints on joint storage

Storage class : 8B

Storage class (TRGS 510) : 8B

## Do not store together with

Keep away from: Acid Oxidising agent.

## 7.3 Specific end use(s)

None

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

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

Limit value type (country of origin) : MAK ( CH )

Limit value : 2 mg/m<sup>3</sup>

Remark : e SSC

Version : 01.01.2013

Limit value type (country of origin) : STEL ( CH )

Limit value : 2 mg/m<sup>3</sup>

Remark : #e SSC

Version : 01.01.2013

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/m<sup>3</sup>

Remark : 15 min / MAK Chlor, CAS 7782-50-5

Version :

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 0.5 ppm / 1.5 mg/m<sup>3</sup>

Remark : MAK 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

Appropriate chemical resistant protective gloves according to EN 374 (Recommended level 6 according to > 480 min permeation according to EN 374): Category 3 (EN 374-3), material: nitrile, thickness:  $\geq$  0.38 mm, permeation: > 480 min, swelling: resistant, penetration level : 3 = AQL value 0.65 = 100 % tight. Glove Recommendation: eg Sol-Vex 37-675 length 33 cm or Sol-Vex 37-185 length 45 cm. This information is based on the manufacturer's specifications. It should be noted that the duration of daily use chemical protective glove in practice (because of many factors such as heat) can be significantly shorter than the calculated according to EN 374 permeation. 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 yellow

Odour : odourless

#### Safety relevant basis data

Initial boiling point and boiling range ( 1013 hPa )

:

not applicable

Flash point :

not applicable

Vapour pressure : ( 50 °C )

not applicable

Density : ( 20 °C )

1.2 g/cm<sup>3</sup>

Solvent separation test : ( 20 °C )

not applicable

Solubility in water :

well water-solubly

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pH value : ( 20 °C / 5 g/l ) 10.3  
Viscosity : ( 20 °C ) approx. 10 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 toxicological effects

No information available.

### 11.4 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.

#### Other observations

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## 12. Ecological information

### 12.1 Toxicity

No information available.

### 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

No information available.

### 12.6 Other adverse effects

No information available.

### 12.7 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

#### Product/Packaging disposal

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.

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

Waste code (91/689/EEC) : 20 01 15\* Waste code (ÖNORM S 2100): 52402 Lyes

## 14. Transport information

### 14.1 UN 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)

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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 I · E 1  
Hazard label(s) : 8

#### Sea transport (IMDG)

Class(es) : 8  
EmS-No. : F-A / S-B  
Special provisions : LQ 5 I · 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.

#### National regulations

##### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

### 15.2 Chemical safety assessment

No information available.

## 16. Other information

### 16.1 Indication of changes

02. Label elements · 03. Hazardous ingredients · 14. Transport hazard class(es) - Land transport (ADR/RID)

### 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.

### 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

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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.

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