

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 20.05.2015

Revision: 20.05.2015

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

• **1.1 Product identifier**

· Trade name: AQUANOX A4625B

• **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· Application of the substance / the mixture: Cleaning agent/ Cleaner

• **1.3 Details of the supplier of the safety data sheet**

· Manufacturer/Supplier:

KYZEN

430 Harding Industrial Drive

Nashville, TN 37211 USA

P: 1-800-854-5524

www.KYZEN.com

KYZEN BVBA

Vliegplein 14B

9990 Maldegem, Belgium

P: +32 50 395 374

· Further information obtainable from: Product safety department

• **1.4 Emergency telephone number:**

CHEMTREC

Within the USA and Canada: 1-800-424-9300

Outside the USA and International: +1-703-527-3887

SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**

· Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

• **2.2 Label elements**

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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- Hazard pictograms



GHS05

- Signal word Danger
- Hazard-determining components of labelling:
2-(2-aminoethoxy)ethanol
tetrahydro-2-furylmethanol
1-ETHYL-2-PYRROLIDONE
- Hazard statements
H314 Causes severe skin burns and eye damage.
- Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

- Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

| | | |
|---|---|---------|
| CAS: 929-06-6 EINECS: 213-195-4 | 2-(2-aminoethoxy)ethanol Skin Corr. 1B, H314; Acute Tox. 4, H312 | 10-<25% |
| CAS: 97-99-4 EINECS: 202-625-6 Index number: 603-061-00-7 | tetrahydro-2-furylmethanol Eye Irrit. 2, H319 | 3-<10% |
| CAS: 57-55-6 EINECS: 200-338-0 | propane-1,2-diol Acute Tox. 4, H302 | 1-≤2,5% |
| CAS: 126-86-3 EINECS: 204-809-1 | 2,4,7,9-tetramethyldec-5-yne-4,7-diol Eye Irrit. 2, H319 | 1-≤2,5% |
| CAS: 29385-43-1 EINECS: 249-596-6 | methyl-1H-benzotriazole Acute Tox. 4, H302 | 1-≤2,5% |

- Additional information: For the wording of the listed risk phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
 - General information: Immediately remove any clothing soiled by the product.
 - After inhalation: In case of unconsciousness place patient stably in side position for transportation.
 - After skin contact: Immediately wash with water and soap and rinse thoroughly.
 - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
 - After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
 - Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
 - Information about fire - and explosion protection: Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - Storage:
 - Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep container tightly sealed.

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- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- Personal protective equipment:
 - General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
 - Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
 - Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

- Appearance:
 - Form: Liquid
 - Colour: Light yellow
- Odour: Mild
- Odour threshold: Not determined.

· pH-value at 20 °C: 11,3

Change in condition

- Melting point/Melting range: Undetermined.
- Boiling point/Boiling range: 170 °C

· Flash point: 100 °C (Tag Closed Cup)

· Flammability (solid, gaseous): Not applicable.

- Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

- Lower: Not determined.
- Upper: Not determined.

· Vapour pressure: Not determined.

Density at 20 °C:

- Density: 0,96 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.

Solubility in / Miscibility with

- water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

Viscosity:

- Dynamic: Not determined.
- Kinematic: Not determined.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

· 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity

LD/LC50 values relevant for classification:

929-06-6 2-(2-aminoethoxy)ethanol

| | | |
|--------|------|---------------------|
| Oral | LD50 | 5660 mg/kg (rat) |
| Dermal | LD50 | 1190 mg/kg (rabbit) |

REPRODUCTIVE EFFECTS: Tetrahydrofurfuryl alcohol, CAS# 97-99-4: Animal dermal, inhalation and feeding studies on this material at relatively high dosage levels have demonstrated systemic toxicity and reproductive toxicity. To date, there is no indication of any adverse chronic health effects in humans from this material in over 40 years of industrial use.

- Primary irritant effect:
 - Skin corrosion/irritation Caustic effect on skin and mucous membranes.
 - Serious eye damage/irritation Strong caustic effect.
- Respiratory or skin sensitisation No sensitising effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

- Additional ecological information:

- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- Uncleaned packaging:
 - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

| | |
|---|-----------------|
| · 14.1 UN-Number · ADR, ADN, IMDG, IATA | Not Regulated |
| · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA | Not Regulated |
| · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class | Not Regulated |
| · 14.4 Packing group · ADR, IMDG, IATA | Not Regulated |
| · 14.5 Environmental hazards: · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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- Relevant phrases
 - H302 Harmful if swallowed.
 - H312 Harmful in contact with skin.
 - H314 Causes severe skin burns and eye damage.

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H319 Causes serious eye irritation.

- Department issuing MSDS: Product safety department
- Contact: MSDS Coordinator
 - Abbreviations and acronyms:
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - Acute Tox. 4: Acute toxicity, Hazard Category 4
 - Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
 - Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
 - Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- * Data compared to the previous version altered.

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