Safety Data Sheet
acc. to OSHA HCS

Printing date 07/19/2022 Reviewed on 07/19/2022

1 Identification

· **Product identifier**

· Trade name: AQUANOX A4625
· Application of the substance / the mixture: Cleaning agent/ Cleaner

· **Details of the supplier of the safety data sheet**
· Manufacturer/Supplier:
KYZEN
430 Harding Industrial Drive
NASHVILLE, TN 37211 USA
P: 1-800-845-5524
www.KYZEN.com

· Information department:

Safety Data Sheet Coordinator
https://www.kyzen.com/cleaning-chemistries-products-services/kyzen-safety-data-sheet/

· Emergency telephone number:

CHEMTREC
Within the USA and Canada: 1-800 424-9300
Outside the USA and International: +1-703-527-3887

2 Hazard(s) identification

· **Classification of the substance or mixture**


GHS08

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.


GHS05

Skin Corrosion 1B H314 Causes severe skin burns and eye damage.
Eye Damage 1 H318 Causes serious eye damage.

· **Label elements**
· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictograms


GHS05 GHS08

· Signal word Danger

· Hazard-determining components of labeling:
2-(2-aminoethoxy)ethanol

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/19/2022 Reviewed on 07/19/2022

Trade name: AQUANOX A4625

(Contd. of page 1)

tetrahydro-2-furylmethanol
1-ETHYL-2-PYRROLIDONE

· Hazard statements
H314 Causes severe skin burns and eye damage.
H360 May damage fertility or the unborn child.

· Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:** NFPA
· NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 0

· HMIS-ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 0

· **Other hazards**
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
929-06-6	2-(2-aminoethoxy)ethanol	10-25%
97-99-4	tetrahydro-2-furylmethanol	≥2.5-<10%
57-55-6	Propylene glycol	≤2.5%
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	≤2.5%
2687-91-4	1-ETHYL-2-PYRROLIDONE	≥0.1-≤2.5%
29385-43-1	methyl-1H-benzotriazole	≤2.5%

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/19/2022 Reviewed on 07/19/2022

Trade name: AQUANOX A4625

(Contd. of page 2)

4 First-aid measures

· **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 copious amounts of water and provide fresh air. Immediately call a doctor.
· Information for doctor:
· Most important symptoms and effects, both acute and delayed No further relevant information available.
· Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· Suitable extinguishing agents: Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· Protective equipment: No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Prevent from spreading (e.g. by damming-in or oil barriers).
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **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.

7 Handling and storage

· **Handling:**
· Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· Information about protection against explosions and fires: Keep respiratory protective device available.

· **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 receptacle tightly sealed.

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/19/2022 Reviewed on 07/19/2022

Trade name: AQUANOX A4625

(Contd. of page 3)

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

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· Components with limit values that require monitoring at the workplace:
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

97-99-4 tetrahydro-2-furylmethanol	
WEEL	Long-term value: 0.5 ppm
57-55-6 Propylene glycol	
WEEL	Long-term value: 10 mg/m³
2687-91-4 1-ETHYL-2-PYRROLIDONE	
TLV	BEI

· Regulatory information
WEEL: Guide to Occupational Exposure Values (AIHA WEELs)
TLV: Guide to Occupational Exposure Values (TLV)

· Ingredients with biological limit values:	
2687-91-4 1-ETHYL-2-PYRROLIDONE	
BEI	- Medium: urine Time: end of shift Parameter: 5-Hydroxy-N-ethyl-2-pyrrolidone (5-HNEP) (without hydrolysis, nonquantitative)

· Additional information: The lists that were valid during the creation were used as basis.

· **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.
· Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
· 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.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/19/2022 Reviewed on 07/19/2022

Trade name: AQUANOX A4625

(Contd. of page 4)

· 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

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· General Information	
· Appearance:	
Form:	Liquid
Color:	Light yellow
· Odor:	Mild
· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	11.3
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	170 °C (338 °F)
· Flash point:	100 °C (212 °F) (Tag Closed Cup)
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	0.96 g/cm³ (8.011 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Partly soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/19/2022 Reviewed on 07/19/2022

Trade name: AQUANOX A4625

(Contd. of page 5)

· **Chemical stability**
· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· Acute toxicity:
· Primary irritant effect:
· on the skin: Caustic effect on skin and mucous membranes.
· on the eye: Strong caustic effect.
· Sensitization: No sensitizing effects known.
· Other information (about experimental toxicology):
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.
· Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)
None of the ingredients is listed.

· NTP (National Toxicology Program)
None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· Aquatic toxicity: No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· Bioaccumulative potential No further relevant information available.
· Mobility in soil No further relevant information available.
· **Additional ecological information:**
· General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water
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.
· **Results of PBT and vPvB assessment**
· PBT: Not applicable.
· vPvB: Not applicable.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/19/2022 Reviewed on 07/19/2022

Trade name: AQUANOX A4625

(Contd. of page 6)

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· Recommendation:
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· **Uncleaned packagings:**
· Recommendation: Disposal must be made according to official regulations.

14 Transport information

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

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· Sara

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.

· TSCA (Toxic Substances Control Act): All ingredients are listed.

· Hazardous Air Pollutants
None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:
None of the ingredients is listed.

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/19/2022 Reviewed on 07/19/2022

Trade name: AQUANOX A4625

(Contd. of page 7)

· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)
None of the ingredients is listed.

· TLV (Threshold Limit Value)
None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this Safety Data Sheet is based on available data from reliable sources and is accurate to the best of KYZEN Corporation's knowledge at the time of this publication. KYZEN makes no warranty, expressed or implied, of merchantability or fitness for a particular purpose, course of performance or usage of trade. The user is solely responsible for determining the suitability and completeness of such information for their particular application and for adopting appropriate safety precautions. Physical properties listed within are typical values based on samples tested and should not be construed as guaranteed analysis of any specific lot or as specifications for the product. KYZEN does not intend this information to be all-inclusive as to the manner and conditions of use, handling, storage and disposal. Other factors may involve additional legal, environmental, safety or performance considerations, and KYZEN assumes no liability whatsoever for the use of, or reliance upon, this information. | www.kyzen.com/terms

· **Contact:** SDS Coordinator
· Date of preparation / last revision 07/19/2022 / -
· Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B
· * Data compared to the previous version altered.