

AQUA-CLEAN®**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING**

Product	Aqua-clean®
Aimed/recommend application	To effectively and efficiently remove organic deposits in the drinking system of animals.
Supplier	Kanters Special Products B.V. De Stater 32 5737 RV Lieshout - The Netherlands Tel.: +31-499-425 600
Emergency telephone	+31 (0)499 425 600 (Fax.: +31 (0)499 425 610)

2 HAZARDS IDENTIFICATION

Biting/corrosive
Oxidizing

R8 Contact with combustible material may cause fire
R20/22 Harmful by inhalation and if swallowed
R34 Causes burns

3 COMPOSITION INGREDIENTS

Description of the substances which are responsible for the danger classification of the preparation:

Chemical name	EINECS number	Concentration	Symbol	R-phrases
Hydrogen peroxide	231-765-0	40 – 60%	C, O	R5-8-20/22-35

4 FIRST AID MEASURES

General information	Immediately remove any clothing soiled by the product. Dependent on the situation contact a doctor or the hospital.
After inhalation	In case of unconsciousness place patient stably in side position for transportation.
After skin contact	Immediately rinse with water.
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.

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5 FIRE-FIGHTING MEASURES

Suitable extinguishing agents	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Extinguish instructions	Cool tanks/cans and/or bring them in safety. Do not move the load when it is exposed to heat. Minimize the extinguish water, when possible catch or dam.
Direct fire-risk	Unknown
Indirect fire-risk	Contact with combustible material may cause fire.

6 ACCIDENTAL RELEASE MEASURES

Personal precautionary measures	Wear suitable gloves, safety goggles and protective clothing. Take care of ventilation or of local extracting. Do not eat, drink or smoke during work.
Environmental precautions	Prevent entering of the product into sewerage, surface water and/or ground water. Keep cans closed. Catch or dam liberated material in suitable barrels. Stop leak and close supply. Dam leaking fluid. Try to limit evaporation.
Cleaning/collecting measures	Absorb with liquid binding material (sand, diatomite, acid binders, universal binders). Treat collected product adhering to official regulations. Clean with plenty of water.

7 HANDLING AND STORAGE

Handling	During use of the product do not eat, drink or smoke. Wear suitable protective equipment. Open and handle receptacle with care. Avoid as much as possible inhalation. Immediately remove any clothing soiled by the product. Keep away from heat and direct sunlight. Do not spill waste in de sewerage. Potentially explosive when mixed with organic substances. Never return spilled product in the original can. Do not mix with other products. Wash hands and other exposed body parts with water and soap after use.
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Storage requirements In agreement with the legal requirements.
 Store only in the original packing.
 Store in a cool location.
 Keep out of reach of children.
 Store away from reducing agents and flammable substances.

Specific application Use for effectively and efficiently remove organic deposits in the drinking system of animals.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION GEAR

Exposure limits

Chemical name	MAC tgg 8 hours	MAC tgg 15 minutes
Hydrogen peroxide	-	-

Concentration measurement

Chemical name	Measuring method
-	

Respiratory protection Not required when there is taking care of ventilation or of local extracting.

Gloves (EN 374) Nitrile rubber, break trough time is determined of hydrogen peroxide 30%.
 Natural rubber, break trough time is determined of hydrogen peroxide 30%.
 PVC, break trough time is determined of hydrogen peroxide 30%.
 Neoprene, break trough time is determined of hydrogen peroxide 30%.

Eye protection Tightly sealed goggles.

Skin protection Protective work clothing.

Environment Not harmful for the environment, but prevent spreading

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Colourless
Odour	Pungent
pH 5% (20°C)	2
Boiling point	ca. 114°C
Flashpoint	Not applicable
Inflammability	Not applicable
Explosion properties	Product does not present an explosion hazard
Oxidizing properties	Oxidizing agent
Vapour pressure at 30°C	0.3 mbar
Density at 20°C	ca. 1190 g/l

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Solubility in water	Fully miscible
Solubility in fat	Not miscible. Reaction with fat.
Log K_{oct/water}	Hydrogen peroxide 60%: Log K _{ow} -1.36
Viscosity	Unknown
Vapour density	Hydrogen peroxide 60%: 1.0

10 STABILITY AND REACTIVITY

Stability	The product is stable under normal circumstances.
Conditions to be avoided	To avoid thermal decomposition do not overheat.
Materials to be avoided	Alkali metals, alkali salts, alkali hydroxides, alkali earth metals, metals, metals (powder), metallic oxides, metal salts, non-metals, non-metallic oxides, aldehydes, alcohols, amines, ammonia, inflammable materials, ether, acids, anhydrides, oxidizing agents, organic materials, peroxide compounds, impurity/dust, paper, permanganate, organic solvents, organic nitro compounds, brass.
Dangerous decomposition products	Oxygen

11 TOXICOLOGICAL INFORMATION

Toxicological information

Chemical name	LD50 Oral rat	LD50 Dermal rat	LD50 Dermal rabbit	LC50 Inhalation rat
Hydrogen peroxide 50%	> 225 mg/kg	4060 mg/kg	-	0.17 mg/l/4h

Acute toxicity	See table above.
Chronicle toxicity	Unknown
Acute effects/symptoms	
After swallowing	Sore throat, stomach ache, expanding of the stomach, sickness, vomiting.
After inhalation	Sore throat, coughing, dizziness, head ache, sickness, short of breath.
After skin contact	White spots, redness, burns on the skin, pain.
After eye contact	Redness, pain, less eye sight, severe burns.

AQUA-CLEAN®**12 ECOLOGICAL INFORMATION**

Ecological information of this product is unknown, but there is information about the in category 2 mentioned component.

Hydrogen peroxide

Mobility	Material is miscible in water.
Degradable	Easy bio-degradable in water.
Bio-accumulation	Material is miscible in water.
Ecotoxicity	LC50 pimephales promelas (fish): 16.4 mg/l/96h EC50 daphnia magna: 7.7 mg/l/24h EC50 chlorella vulgaris (algae): 2.5 mg/l/72h
Other effects	Unknown

13 DISPOSAL CONSIDERATIONS

Product	Keep waste apart. Must be specially treated adhering to official regulations.
Packaging	Disposal of uncleaned packaging must be made according to official regulations. The packaging can be cleaned with water, if necessary together with cleaning agents.
Dangerous residues	None.
Relevant regulations	Waste must be specially treated adhering to official regulations.

14 TRANSPORT INFORMATION**International transport regulations**

UN-number	2014
Proper technical name	Hydrogen peroxide, aqueous solution

Road/rail transport

ADR/RID class	5.1
Packaging group	II
ADR/RID classification code	58
Danger code	58
ADR/RID label	5.1 + 8

Inland waters transport

ADNR class	5.1
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Sea

IMDG class	5.1
Packaging group	II
Marine pollutant	None
EMS number	F-H, S-Q

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Air
IATA class 5.1
Remarks Air transport not allowed

15 REGULATORY INFORMATION

EU-classification danger symbol
C, O



Corrosive



Oxidizing

Risk phrases

R8 Contact with combustible material may cause fire
R20/22 Harmful by inhalation and if swallowed
R34 Causes burns

Safety phrases

S1/2 Keep locked up and out of reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/39 Wear suitable protective clothing and eye/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible)
S46 If swallowed, seek medical advice immediately and show this container or label.
S50 Do not mix with anything else than mentioned on this label.

Contains

Hydrogen peroxide

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16 OTHER INFORMATION

This information only concerns the in paragraph 1 mentioned product and the in this safety data sheet mentioned circumstances. The information does not need to be valid if used with other product(s) or in any process.

It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product. Existing laws and regulations must be fulfilled through the receiver of our product on own responsibility.

R5 Heating may cause an explosion
R8 Contact with combustible material may cause fire
R20/22 Harmful by inhalation and if swallowed
R35 Causes severe burns

Sources:

- Course Labelling & Safety data sheets
- <http://ecb.jrc.it>
- www.bestglove.com
- www.ser.nl/overdeser/default.asp?desc=overdeser_mac_waarden_inleiding

Changes were made in section: 7 and 13