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1 Identification of the substance/mixture and the company

- | | | |
|-----|--------------------|--|
| 1.1 | Product identifier | HydroXan[®] |
| 1.2 | Use of substance | Oxidant |
| 1.3 | Supplier | TCDO Produktionsgesellschaft mbH
Carola-Blome-Str. 7
A-5020 Salzburg
Tel: +43 662 434342-0
Fax: +43 662 434342-3 |
| | Contact | Mr. G. Weiss
Email: office@wapotec.at |
| 1.4 | Emergency phone | +43 662 43 43 42-0
Office hours:
MO - TH: 8.00 - 16.00
FR: 8.00 - 12.00 |

2 Hazards identification

- 2.1 Hazard classification of substance or mixture
- according to Directive (EC) N° 1272/2008
Not app.
The product is not classified as dangerous.
 - according to Directive (EC) N° 1999/45
Not app.
The product is not classified as dangerous.
- 2.2 Identification labeling
- according to Directive (EC) 1272/2008
Not app.
The product is not classified as dangerous according to Directive (EC) 1272/2008
 - according to Directive (EC) N° 1999/45
Not app.
The product is not classified as dangerous according to Directive (EC) N° 1999/45
 - Danger defining components for labeling
Not app.
- 2.3 Other hazards
- Generation of chlorine gas after contact with concentrated acids.

3 Composition/information on ingredients

3.1 Substances

Not app.

3.2 Mixtures

Chemical characteristics

Tetrachlorodecaoxide complex (TCDO-anion), aqueous solution

ELINCS-no. 420-970-2

Registration no. 01-0000016753-67-0001

Dangerous ingredients

None.

4 First-aid measures

4.1 Description of first-aid measures

Consult physician if disturbances occur.

No medication in case of unconsciousness or cramps

Remove immediately all contaminated clothing.

Rinse contaminated clothing immediately.

After inhalation

Usually no effects.

Move affected person immediately to fresh air. Consult physician if disturbances occur.

Upon unconsciousness transport and rest in recovery position.

After skin contact

After skin contact, wash with plenty of water and soap.

Remove immediately all contaminated clothing.

Consult physician if disturbances occur.

After eye contact

After eye contact, rinse eye for 10 to 15 minutes with water holding eye lids apart.

Consult a physician upon eye irritation.

After ingestion

Rinse mouth with cold water.

As first aid measure make person drink (100–150ml) a solution of diluted (1-2 %) ascorbic acid.

4.2 Most important symptoms and effects, acute and delayed

No data available.

4.3 Indications for immediate medical attention or special treatment needed

Depending on patient's condition, symptoms and general condition should be evaluated by a physician

5 Fire-fighting measures

- 5.1 Extinguishing media
- ☉ Suitable extinguishing media
- Product itself is non flammable. Adapt extinguishing media to environment.
- ☉ Unsuitable extinguishing media for safety reasons
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- 5.2 Special hazards arising from the substance or mixture
- Unknown.
- 5.3 Special protective actions for fire-fighters
- Special protective equipment: Wear self-contained breathing apparatus and full protective clothing

6 Accidental release of material

- 6.1 Personal precautions, protective equipment and suitable emergency procedures.
- Restricted access to affected area during cleaning. Wear full protective clothing. Make sure enough air conditioning. Avoid contact to substance.
- 6.2 Environmental precautions
- Do not empty undiluted into canalization/surface water/ground water.
- 6.3 Methods and material for retention and cleaning up.
- Dilute with plenty of water and dispose off as sewage (unless unsuitable due to chemical/technical reasons and/or provisions).
- 6.4 Reference to other clauses
- Protective measures see point 8
 Disposal see point 13

7 Handling and storage

- 7.1 Precautions for safe handling
- No special measures or precautions necessary for handling, storage, transport or in case of fire with solutions water diluted till 10 g TCDO/l max. or higher (1:100 till 1:1000).
- 7.2 Conditions for safe storage including any incompatibilities
- ☉ Fire and explosion protection measures
- No special measures required. Do not smoke.
- ☉ Design of storage rooms and container
- No special requirements for storage rooms.
 Do not store the original container gas-tight.
 Do not store with acids and other chlorine products.
- ☉ Material incompatibility

Unknown.

Recommended storage temperature +5°C to +35°C, protect from sun

VbF class Not applicable.

7.3 Specific end uses

Oxidant.

8 Exposure controls/personal protection

8.1 Control parameters

The product does not contain relevant quantities of substances with monitored limits based on the workplace.

8.2 Exposure controls

General protective and hygiene measures

Follow usual precautions when dealing with chemicals. Keep away from food, drink and fodder. Do not eat or drink at work, wash hands before breaks and end of work. Avoid eye and skin contact.

Respiratory protection

Not necessary.

Hand protection

Not necessary

Eye protection

Tightly sealed goggles

Personal protection

Normal work wear

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Appearance	liquid
Colour	pastel green to transparent
Odour	characteristic, not unpleasant
pH	appr. 8,2 – 8,4
Melting point	-11 °C
Boiling point / boiling range	102,6 °C
Flash point	n. a.
Self-inflammability	n. a., active component exists only in aqueous solutions.
Explosive on risk	Non-explosive

Surface tension	79,5 ± 0,31 Nm / 19,7 °C
Vapour pressure (50 °C)	298 K / 2,7 kPa
Density at 20°C	1,099 g/cm ³
Water solubility at 20°C	Soluble, user-defined mixable
Viscosity at 20°C	1,1 mPas

9.2 Further information
None.

10 Stability and reactivity

10.1 Reactivity

No hazardous reaction when using according to regulations.

10.2 Chemical stability

No decomposition when using according to regulations.

10.3 Possibility of hazardous reactions

Mixing with other acids can generate chlorine dioxide.

10.4 Conditions to avoid

Do not expose to extreme temperatures.

10.5 Incompatible materials

Avoid contact with acids and other chlorine products.

10.6 Hazardous decomposition products

Due to an inappropriate handling and contamination with concentrated acids chlorine dioxide can be generated.

11 Toxicological information

11.1 Acute toxicity

TCDO:

LD₅₀ (rat) 4,58ml/kg-LG (live weight) (24 hours)

LD₅₀ (rabbit) negative: 10% solution does not show conjunctive irritations after application.

According to valuation key of Etad-Sub-Committee for Toxicology

- classified non-irritant (LC₅₀(96h) > 1000 ppm)
- concentrate very poor conjunctival irritations up to 24 hours after application

Primary irritations

Skin: classified non-irritant

Eye: classified non-irritant

Sensitisation

No sensitizing effects known.

 Cancerogenity

The product does not contain any ingredients at a concentration equal or higher than 0,1%, being listed as carcinogen at the International Agency for Cancer Research (IARC) or the American Conference for Governmental Industrial Hygienic (ACGIH).

 Further information

No toxic effects on skin cells (Ceratinocytes).

Classification of preparation according to CLP-Regulation (EC) 1272/2008 Annex I and to Dangerous Preparations Directive 1999/45/EC.



12 Ecological information

12.1 Toxicity

There is no adverse effect of the product if it is diluted with plenty of water.

 Aquatic toxicity:

- Rainbow trout, absolute non-toxic to fishes
- LC₅₀ (Daphnia magna): 1210 mg/l – practically non-toxic

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available for the product itself.

12.5 Results of PBT- and vPvB-assessment

No data available

12.6 Other adverse effects

Do not dispose of the product undiluted with ground water/ waters or canalization.



13 Disposal considerations

13.1 Waste treatment methods

Dilute with plenty of water, can be disposed of down the drain (as long as there are no respectively chemical, technical or legal directives).

 Waste key number

Not applicable.

 Waste name

Not applicable

 European waste catalogue

Notice: EAK-waste key is source-related. This may lead to another classification.

The decision is up to the enduser.

- Contaminated packaging material

Recommendation: Empty container completely and deliver to a specialized company for reconditioning, recycling or disposal.

14 Transport information

No dangerous good according to regulation for transport of dangerous goods.

14.1 UN-Number

Not applicable.

14.2 Proper UN-shipping name

Not applicable.

14.3 Transport hazard class

Not applicable.

14.4 Packaging group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for the user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL agreement 73/78 and according to IBC-Code

Not applicable.

15 Regulatory information

15.1 Safety-, health-, ambient- and legislation specific instructions for substance or mixture

This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006.

The mixture is classified according to Dangerous Preparations Directive (EC) 1999/45 and to regulation (EC)1272/2008 Annex I.

National regulatory:

Austria:

- Labeling according to BGI II 2000/81 ChemV 1999.
The product is not classified and does not require hazards identification.
- ChemG 1996
This product is not classified hazardous according to the Austrian chemical legislation of 1996.
- VbF - Directive about combustible liquids (BGI 1991/240)
This product is not classified as combustible liquid.

Germany:

-  Classification in water hazard classes according VwVwS dated 17.05.1999 (self assessment)
 wp 2 (water pollutant)

15.2 Chemical safety assessment

The mixture is not subject to safety assessment..



16 Other information

The information provided on this SDS is correct to the best of our knowledge and information, but not to be considered as warranty or quality specification nor creates contractual relationship. The information given is designed only as a guidance for safe handling. The categorization according to Dangerous Preparations Directive 1999/45/EC resp. regulation CLP (EC)1272/2008 is based on the classification of the single component according to Annex VI of regulation CLP (EC)1272/2008 as well as upon manufacturer details completed by indications from hazardous material database.

-  Relevant R-Phrases

Not applicable.

-  Relevant H-Phrases

Not applicable.

-  Relevant hazard classification

Not applicable.

-  Issue

Number 2
Modification to Directive (EC) 453/2010

-  Written by

UmEnA GmbH

-  Translated by

Wapotec GmbH

-  Short cuts

n. t. not tested
n. a. not applicable

