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1 Identification of the substance/mixture and the company

- | | | |
|-----|--------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1.1 | Product identifier | DesoPur® |
| 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 applicable.

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

5.2 Unsuitable extinguishing media for safety reasons

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 available.

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 available.

Hand protection

Not available.

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

Compounding with concentrated acids can generate chlorine dioxide.

10.4 Conditions to avoid

Do not expose high temperatures to avoid decomposing.

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)
- concentrated solution: very mild conjunctival irritations up to 24 hours after application.

Primary irritations

Skin: irritant

Eye: 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

TCDO:

- Rainbow trout, non-toxic to fishes
- LC₅₀ (Daphnia magna): 1210 mg/l – 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 chemical respectively technical 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 the Hazardous Material Transportation Act

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 user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL agreement 73/78 and according to IBC-Code IBC08; EMS: F-H, S-Q

Not applicable.

15 Regulatory information

15.1 Safety-, health- and environmental regulations/legislation specific for substance or mixture

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

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

National regulatory:

Austria:

- ☉ Labelling according to BGBl 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 (BGBl 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 categorisation 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 on manufacturer's data completed by hazardous material database.

- ☉ Relevant R-Phrases

Not applicable.

- ☉ Relevant H-Phrases

Not applicable.

- ☉ Relevant hazard classification

Not applicable.

- ☉ Edition

Number 2
Modification to Directive (EC) 453/2010

- ☉ Written by

UmEnA GmbH

- ☉ Translated by

Wapotec GmbH

- ☉ Short cut

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