# Safety data sheet according to Regulation (EC) 1907/2006



created: 09.03.2009 updated: 25.11.2019

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Section 1	Identification of the substance	e/mixture and the company
1.1	Product identifier	<b>DesoPur</b> ®
1.2	Relevant identified uses of the	substance or mixture and uses advised against
	Identified 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
		<b>Toxicity information centre Vienna:</b> Phone: +43 1 406 43 43 Available 0-24h



Section 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.
2.2	Label elements
	according to Directive (EC) 1272/2008
	Not app. The product is not classified as dangerous according to Directive (EC) 1272/2008.
	<ul> <li>Danger defining components for labeling</li> </ul>
	Not app.
2.3	Other hazards
	Generation of chlorine gas after contact with concentrated acids.



# Section 3 Composition/information on ingredients

3.2 Mixtures



Chemical characteristics

Tetrachlorodecaoxide complex (TCDO-anion), aqueous solution

CAS- no. 92047-76-2 ELINCS-no. 420-970-2

Registration no. 01-0000016753-67-0001

C Dangerous ingredients

None.

## Section 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.

Supply 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. Otherwise drink plenty of water. See a physician immediately.

4.2 Most important symptoms and effects, acute and delayed

No further 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.



## Section 5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media



Product itself is nonflammable. Adapt extinguishing media to environment.

Unsuitable extinguishing media for safety reasons

None.

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



Section 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). High assimilative capacity.
6.4	Reference to other sections.
	Protective measures see section 8 Disposal see section 13



## Section 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/I 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

 $+5^{\circ}$ C to  $+35^{\circ}$ C, protect from sun



temperature

VbF class

Not applicable.

7.3 Specific end uses

Oxidant.

## Section 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 and drinks. Do not eat or drink at work, wash hands before breaks and end of work. Avoid eye and skin contact.

Avoid inhaling of steams/aerosols. Change contaminated work wear and clean it before the next wearing. Preventive skin protection.

Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection

Not necessary.

Mand protection

Not necessary

Eye protection

Tightly sealed goggles

Personal protection

Appropriate protective clothes

Environmental exposure controls

Do not allow undiluted to be released into the canalization /groundwater/surface water.



## Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties.

C Appearance Liquid

Color
Pastel green to transparent

Odor
Characteristic, not unpleasant

Odor threshold
No data available.

© pH Approx. 8.2 – 8.4



Melting point -11 °C

Boiling point / boiling range 102.6 °C

Flash point
Not applicable

© Evaporation rate No data available.

Flammability
Not applicable (active component exists only in

aqueous solutions)

Upper explosion limit
No data available.

C Lower explosion limit No data available.

Vapor pressure (25 °C)
2.7 kPa

Density (20°C)1.099 g/cm³

Water solubility (20°C)
Soluble, user-defined mixable

Partition coefficient; No data available.

n-octanol-water

Auto ignition temperature
No data available.

© Decomposition temperature No data available.

Viscosity (20°C) 1.1 mPas

Explosive properties
The product is none-explosive.

Oxidizing propertiesOxidant

9.2 Other data

© Surface tension 79.5 Nm/m 20 °C



Section 10	Stability and reactivity
10.1	Reactivity
	No hazardous reaction when using according to intended purpose.
10.2	Chemical stability
	No decomposition when using according to intended purpose.
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.



## Section 11 Toxicological information

11.1 Information on toxicological effects

LD<sub>50</sub> values relevant for classification of individual components

#### TCDO:

LD<sub>50</sub> (rat) 4.58ml/kg-LG (live weight) (24 hours)

 $LD_{50}$  (rabbit) negative: 10% solution does not show conjunctive irritations after application.

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

- classified non-irritant ( $LC_{50}(96h) > 1000 \text{ ppm}$ )
- concentrate very poor conjunctival irritations up to 24 hours after application
- C Acute toxicity

Based on available data the classification criteria are not met.

Corrosive/irritant to skin

Based on available data the classification criteria are not met.

Serious eye damage/eye irritation

Based on available data the classification criteria are not met.

Respiratory/skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

The product does not contain any ingredients at a concentration equal or higher than 0.1%, being classified as mutagen.

Based on available data the classification criteria are not met.

Carcinogenicity

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). Based on available data the classification criteria are not met.

Reproductive toxicity

The product does not contain any ingredients at a concentration equal or higher than 0.1%, being classified as toxic for reproduction.

Based on available data the classification criteria are not met.

Specific target organ toxicity for single exposure

Based on available data the classification criteria are not met.

Specific target organ toxicity for multiple exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.



Further information

No toxic effects on skin cells (Ceratinocytes). Classification of preparation according to CLP-Regulation (EC) 1272/2008 Annex I.



Section 12 Ecological information	ection 12	cological information
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12.1 Toxicity

> No eco-toxicological tests carried out on the product itself. Classification of preparation according to CLP-Regulation (EC) 1272/2008 Annex I. There is no adverse effect of the product if it is diluted with plenty of water.

Aquatic toxicity of individual components:

TCDO:

Acute toxicity fish:

LC50 (96 h) > 1000 mg/l rainbow trout (Oncorhynchus mykiss)

Acute toxicity daphnia:

EC50 (24 h): 1210 mg/l – Daphnia magna

Algal toxicity:

EC50 (72 h): ca, 430 mg/l – Scenedesmus subspicatus NOEC (72 h) > 80 mg/l – Scenedesmus subspicatus

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation 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 for the product itself.

12.6 Other adverse effects

Do not allow undiluted product to reach ground water, water course or sewage

system.



#### Section 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 not respectively chemical, technical or legal directives).

Waste key number

Not applicable.

Waste name

Not applicable



© European waste catalogue

Note: The EWC-waste key is source-related. This may lead to a change in the classification. The decision is up to the end user.

Contaminated packaging material

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

Section 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	Packing 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.	

## Section 15 Regulatory information

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

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This safety data sheet complies with the Regulations (EC) Reach  $N^{\circ}$  1907/2006. The mixture is classified according to regulation (EC) 1272/2008 Annex I.

## National regulatory:

#### Austria:

ChemG 1996-amendment 2011

This product is not classified as a hazardous mixture (no hazardous preparation) according to the Austrian chemical legislation of 1996- amendment 2011.

VbF - Directive about combustible liquids (BGBI 1991/240)
This product is not classified as combustible liquid acc. VbF.



Germany:

Regulations on Facilities Handling Substances Dangerous to Water (AwSV) dated 18 April 2017
WHC 1 (low water hazardous)

Hazardous Incident Ordinance
 Hazardous Incident Ordinance, Annex: Not mentioned.

15.2 Chemical safety assessment

The mixture is not subject to safety assessment.



## Section 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 guidance for safe handling. Since unknown risk potentials can never be completely ruled out, the product should be handled with the usual care when dealing with chemicals and only for the uses listed in Section 1.

The categorization according to 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 and the ECHA.

Relevant H-phrases

Not applicable.

Relevant hazard classification

Not applicable.

Edition
Replaces previous versions

Written by UmEnA GmbH (http://www.umena.at)

Translated by WAPOTEC GmbH

Short cuts
PBT persistent, bio-accumulative, toxic

vPvB high persistent, high bio-accumulative

WPC water hazard class

ECHA European Chemicals Agency (http://www.echa.eu)