

Trade name: Oxy nex 2004 Merck

Substance number: 066830

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Oxy nex 2004 Merck

Item No. 06683000

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Cosmetics

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Hazard statements

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

P273

Avoid release to the environment.

P391

Collect spillage.

P501.3

Disposal in compliance with local and national regulations.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Hazardous ingredients

2,6-Di-tert-butyl-p-cresol

CAS No. 128-37-0

EINECS no. 204-881-4

Concentration \geq 10 < 25 %

Classification (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 M = 1

Aquatic Chronic M = 1

1

Citric acid, anhydrous

CAS No. 77-92-9

EINECS no. 201-069-1

Concentration \geq 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air.

After skin contact

Wash immediately with plenty of water for several minutes. Remove contaminated, soaked clothing immediately and dispose of safely.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide, Foam, Dry powder

Non suitable extinguishing media

not applicable

5.2. Special hazards arising from the substance or mixture

The product is combustible. In case of combustion evolution of dangerous gases possible. Forms explosive mixture with air are possible. Vapours heavier than air.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

Other information

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Do not discharge into surface waters/groundwater. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale vapours. Keep away from sources of ignition - No smoking. Keep away unprotected persons.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

For small amounts: take up with appropriate instrument and dispose. Dampen, pick up mechanically and dispose of. Clean up affected area.

SECTION 7: Handling and storage

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place.

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2,6-Di-tert-butyl-p-cresol

List	SUVA	
Type	MAK	
Value	10	mg/m ³
Short term exposure limit	40	mg/m ³
Pregnancy group: S; Status: 2017; Remarks: SSc; KG, Leber		

Derived No/Minimal Effect Levels (DNEL/DMEL)

2,6-Di-tert-butyl-p-cresol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3.5	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0.5	mg/kg

Citric acid, anhydrous

Predicted No Effect Concentration (PNEC)

2,6-Di-tert-butyl-p-cresol

Type of value	PNEC
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Type	Freshwater	
Concentration	0.199	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.0199	µg/l
Type of value	PNEC	
Type	Water	
Conditions	Intermittend	
Concentration	1.99	µg/l
Type of value	PNEC	
Type	Sediment	
Concentration	0.0996	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.0096	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0.04769	mg/kg

Citric acid, anhydrous

Type of value	PNEC	
Type	Freshwater	
Concentration	0.44	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.044	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1000	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	34.6	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	3.46	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	33.1	mg/kg

8.2. Exposure controls**General protective and hygiene measures**

Wash contaminated clothing before reuse. Preventative skin protection. Wash hands and face after work.

Respiratory protection

necessary; Breathing apparatus in the event of aerosol or mist formation.

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Hand protection

Appropriate Material	nitrile rubber - NBR
Material thickness	0.11 mm
Breakthrough time	> 480 min
Appropriate Material	nitrile rubber - NBR
Material thickness	0.11 mm
Breakthrough time	> 480 min

Eye protection

necessary

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Form** Paste, pourable**Colour** white**Odour** characteristic**Colour** almost white**pH value**

Value	2	to	3
Concentration/H ₂ O	200	g/l	
Temperature	20	°C	
Remarks	Suspension in water		

Melting point

Value	40	to	50	°C
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Initial boiling point and boiling range

Remarks No data available

Flash point

Value	appr. 90	°C
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Upper/lower flammability or explosive limits

Remarks Not applicable

Density

Value	- 1.03	g/cm ³
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Solubility in water

Temperature	20	°C
Remarks	partly soluble	

Viscosity

Remarks No data available

Explosive properties

evaluation no

Oxidising properties

Remarks Not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

Incompatible with acid chlorides and acid anhydrides. Strong oxidising agents

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10.2. Chemical stability

Sensitive to moisture.

10.3. Possibility of hazardous reactions

When exposed to high temperatures may produce hazardous decomposition products. Keep away from sources of heat and ignition.

10.4. Conditions to avoid

Protect from heat/overheating. Can react violent with oxygen rich (fire expediting) material. Risk of explosion. Keep away from sources of heat and ignition.

10.5. Incompatible materials

Strong oxidising agents, Incompatible with acid chlorides and acid anhydrides.

10.6. Hazardous decomposition products

No data available.

Other information

Explosible with air in a vaporous/gaseous state when heated.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****2,6-Di-tert-butyl-p-cresol**

Species	Rats (male/female)	
LD50	> 6000	mg/kg
Method	OECD 401	

Citric acid, anhydrous

Species	rat	
LD50	3000	mg/kg

6-O-palmitoylascorbic acid

Species	rat	
LD50	> 10000	mg/kg

6-O-palmitoylascorbic acid

Species	mouse	
LD50	25000	mg/kg
Species	rat	
LD50	> 5000	mg/kg

Propane-1,2-diol

Species	rat	
LD50	20000	mg/kg

Propane-1,2-diol

Species	rat	
LD50	6660	mg/kg
Remarks	intraperitoneal	

Propane-1,2-diol

Species	mouse	
LD50	9718	mg/kg
Remarks	intraperitoneal	

Acute dermal toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Species	Rats (male/female)	
LD50	> 2000	mg/kg

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Method OECD 402

6-O-palmitoylascorbic acid

Species guinea pig
LD50 > 3000 mg/kg

Propane-1,2-diol

Species rabbit
20800 mg/kg

Skin corrosion/irritation

evaluation slightly irritant

Serious eye damage/irritation

Remarks Irritates the eyes.

Sensitization

Remarks No data available.

Sensitization (Components)**2,6-Di-tert-butyl-p-cresol**

Species Human
evaluation non-sensitizing

6-O-palmitoylascorbic acid

evaluation non-sensitizing
Remarks No sensitisation effect known.

Mutagenicity

Remarks No data available.

Mutagenicity (Components)**2,6-Di-tert-butyl-p-cresol**

evaluation No mutagenicity according to various in vitro tests.

2,6-Di-tert-butyl-p-cresol

Species Salmonella typhimurium
evaluation No mutagenicity in the Ames-test.
Remarks negative

2,6-Di-tert-butyl-p-cresol

Route of exposure oral
Species rat (male)
Remarks negative

2,6-Di-tert-butyl-p-cresol

Route of exposure intraperitoneal
Species mouse
evaluation No mutagenicity in the micronucleus test.

Reproductive toxicity

Remarks No data available.

Carcinogenicity

Remarks No data available.

Specific Target Organ Toxicity (STOT)

Remarks Not applicable

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information**12.1. Toxicity**

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General information

There is no data available on the product apart from the information given in this subsection.

Fish toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Species	Oryzias latipes	
LC50	5.3	mg/l

Citric acid, anhydrous

Species	golden orfe (Leuciscus idus)	
LC50	440 to 760	mg/l
Duration of exposure	96 h	

6-O-palmitoylascorbic acid

Species	Salmo gairdneri	
LC50	51	mg/l
Duration of exposure	96 h	

Propane-1,2-diol

Species	Fathead minnow (Pimephales promelas)	
NOEC	52930	mg/l
Duration of exposure	96 h	

Daphnia toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

EC50	0.48	mg/l
Duration of exposure	48 h	
Method	OECD 202	

2,6-Di-tert-butyl-p-cresol

NOEC	0.15	mg/l
Duration of exposure	48 h	

Citric acid, anhydrous

EC5	485	mg/l
Source	Entosiphon sulcatum (Literaturwert)	

Citric acid, anhydrous

Species	Daphnia magna	
EC50	120	mg/l
Duration of exposure	72 h	

Propane-1,2-diol

Species	Daphnia	
NOEC	13020	mg/l

Propane-1,2-diol

Species	Daphnia magna	
EC50	> 10000	mg/l
Duration of exposure	48 h	

Algae toxicity (Components)**Citric acid, anhydrous**

Species	Scenedesmus quadricauda	
IC5	640	mg/l
Duration of exposure	7 d	

Citric acid, anhydrous

Species	Microcystis aeruginosa (blue alge)	
IC5	80	mg/l

2,6-Di-tert-butyl-p-cresol

EC50	> 0.4	mg/l
Duration of exposure	72 h	

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Bacteria toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

EC50	1.7	mg/l
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2,6-Di-tert-butyl-p-cresol

EC0	500	mg/l
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Duration of exposure	30	min
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2,6-Di-tert-butyl-p-cresol

Species	activated sludge	
EC50	> 10000	mg/l

Duration of exposure	3	h
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Citric acid, anhydrous

EC5	> 10000	mg/l
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Duration of exposure	16	h
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12.2. Persistence and degradability**General information**

There is no data available on the product apart from the information given in this subsection.

Biodegradability (Components)**Citric acid, anhydrous**

Value	98	%
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Duration of test evaluation	2	d
	Readily eliminable from water	

2,6-Di-tert-butyl-p-cresol

Value	< 10	%
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Duration of test evaluation	20	d
Method	not readily degradable OECD 301D	

6-O-palmitoylascorbic acid

Value	48	%
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Duration of test evaluation	28	d
Method	not readily degradable OECD 302B/ISO 9888/EEC 88/302,C	

Ready degradability (Components)**Citric acid, anhydrous**

Value	98	%
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Duration of test	2	d
Method	OECD 302B/ISO 9888/EEC 88/302,C	

Chemical oxygen demand (COD) (Components)**Citric acid, anhydrous**

Value	728	mg/g
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Biochemical oxygen demand (BOD5) (Components)**Citric acid, anhydrous**

Value	526	mg/g
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Duration of test	5	d
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12.3. Bioaccumulative potential**General information**

There is no data available on the product apart from the information given in this subsection.

Octanol/water partition coefficient (log Pow) (Components)**Citric acid, anhydrous**

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log Pow -1.72
Temperature 20 °C

6-O-palmitoylascorbic acid

log Pow 6.0
Method calculated

12.4. Mobility in soil**General information**

For this subsection there is no ecotoxicological data available on the product as such.

12.6. Other adverse effects**General information**

There is no data available on the product apart from the information given in this subsection.

General information / ecology

Do not discharge product unmonitored into the environment. Product is highly hazardous to water.




SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	Non-dangerous goods	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	(2,6-Di-tert-butyl-p-cresol)	(2,6-Di-tert-butyl-p-cresol)	(2,6-Di-tert-butyl-p-cresol)
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class WGK 3
(Germany)

Remarks Classification according to Annex 4 VwVwS

15.2. Chemical safety assessment

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For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Irrit. 2	Eye irritation, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.