

Safety Data Sheet according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 02/17/2021

1 Identification

Product identifier

Trade name: PerOxytabs® II

Application of the substance / the mixture Tablets for surface disinfection

Details of the supplier of the safety data sheet

Supplier

Everlygreen INC.
455 German School Rd, Paris,
Ontario Canada N3L 3E1
Tel: +1 519-729-4882
kelly@everlygreen.ca
Emergency tel: 911

Manufacturer

O2-Tabs Desinfektion GmbH
Silberhofstr. 88
D-09599 Freiberg
Germany

Information department:

Tel.: +49 (0)3731 4193820
Fax: +49 (0)3731 4193821
E-Mail: info@medeagroup.de
contact person: Dr. Niels Ole Vesterager

Emergency telephone number: Emergency tel: 911

2 Hazard identification

Classification of the substance or mixture

Acute Toxicity (Oral) - Category 4 H302 Harmful if swallowed.
Skin Corrosion - Category 1B H314 Causes severe skin burns and eye damage.
Serious Eye Damage - Category 1 H318 Causes serious eye damage.
Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS05 GHS07

Signal word Danger

Hazard-determining components of labeling:

potassium monopersulphate
maleic acid
sodium dodecyl sulphate

Hazard statements

Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

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Precautionary statements

Keep out of reach of children.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Call a poison center/doctor if you feel unwell.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Immediately call a poison center/doctor.
 Specific treatment (see on this label).
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 3
 Fire = 0
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *3
 Fire = 0
 Reactivity = 0

3 Composition/Information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

70693-62-8	potassium monopersulphate	50-100% w/w *
110-16-7	maleic acid	10% w/w
5329-14-6	sulphamidic acid	≥2.5-<10% w/w *
151-21-3	sodium dodecyl sulphate	≥2.5-<10% w/w *

* Actual concentration ranges are withheld as a trade secret.

Specific concentration limits

maleic acid CAS 110-16-7: Skin Sens. 1 ≥ 0.1
 sodium dodecyl sulphate CAS 151-21-3: Eye Dam. 1: ≥ 20 %; Eye Irrit. 2: ≥ 10 - < 20 %.

4 First-aid measures

Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

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After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Information for doctor:**Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:**CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture No further relevant information available.**Advice for firefighters****Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Wash residues with water.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:**Precautions for safe handling** Avoid contact with the eyes and skin.**Information about protection against explosions and fires:** No special measures required.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Store in a cool and dry place.

Information about storage in one common storage facility: Not required.**Further information about storage conditions:** Keep receptacle tightly sealed.

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Specific end use(s) No further relevant information available.

8 Exposure controls/ Personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Breathing equipment: In case of dust formation use respiratory protective device.

Protection of hands: Protective gloves

Material of gloves

Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.2 mm

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Tablets
Color:	White
Odor:	Characteristic
Odor threshold:	Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

Flash point: Not applicable.

Flammability (solid, gaseous): Not determined.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

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Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Easily soluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability Stable if stored according to specifications

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid Protect from humidity and water.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	>672-690 mg/kg (rat)
Dermal	LD50	>10,799 mg/kg (rabbit)

70693-62-8 potassium monopersulphate

Oral	LD50	500 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	>5 mg/l (rat) (OECD 403)

110-16-7 maleic acid

Oral	LD50	708 mg/kg (rat)
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Dermal	LD50	1,560 mg/kg (rabbit)
5329-14-6 sulphamidic acid		
Oral	LD50	3,160 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
151-21-3 sodium dodecyl sulphate		
Oral	LD50	>500-2,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit)

Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity:

70693-62-8 potassium monopersulphate

LC50/96h 53 mg/l (Oncorhynchus mykiss) (OECD 203)

EC50/48h 3.5 mg/l (Daphnia magna) (OECD 202)

110-16-7 maleic acid

LC50/96h 75 mg/l (fish) (EPA 660/3-75-009)

EC50/48h 42.81 mg/l (Daphnia magna) (OECD 202)

EC50/72h 74.35 mg/l (algae) (OECD 201)

5329-14-6 sulphamidic acid

LC50/96h 70.3 mg/l (Pimephales promelas)

EC50/24h 71.6 mg/l (Daphnia magna) (OECD 202)

EC50/72h 48 mg/l (algae) (OECD 201)

151-21-3 sodium dodecyl sulphate

LC50/96h >10-100 mg/l (Pimephales promelas)

EC50/48h >1-10 mg/l (Ceriodaphnia dubia)

Persistence and degradability The contained surfactants are easily biodegradable

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number

DOT/TDG, ADR, IMDG, IATA UN1759

UN proper shipping name

DOT/TDG Corrosive solids, n.o.s. (potassium monopersulphate)
ADR, IMDG, IATA CORROSIVE SOLID, N.O.S. (potassium monopersulphate)

Transport hazard class(es)

DOT/TDG (Transport dangerous goods):



Class 8
Label 8

ADR, IMDG, IATA



Class 8
Label 8

Packing group

DOT/TDG, ADR, IMDG, IATA III

Environmental hazards:

Marine pollutant: No

Special precautions for user

Warning: Corrosive substances

Hazard identification number (Kemler code): 80

EMS Number: F-A,S-B

Segregation groups Acids

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Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
IMDG	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 1759 CORROSIVE SOLID, N.O.S. (POTASSIUM MONOPERSULPHATE), 8, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Sara

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

144-55-8	sodium hydrogencarbonate	ACTIVE
110-16-7	maleic acid	ACTIVE
5329-14-6	sulphamidic acid	ACTIVE
532-32-1	sodium benzoate	ACTIVE

Canadian substance listings:

Canadian Domestic Substances List (DSL)

All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

110-16-7	maleic acid	
5329-14-6	sulphamidic acid	
151-21-3	sodium dodecyl sulphate	

GHS label elements GHS label elements

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

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Trade name: PerOxytabs® II**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Department R&D**Contact:** Dr. Niels Ole Vesterager**Date of the latest revision of the safety data sheet** 04/02/2021 / 1**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

*** Data compared to the previous version altered.**