

EndoHigh PAA

Version: 2 / IE

Replaces Version: - / IE

Date revised: 15.05.2019

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

1.1. Product identifier

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

Identified Uses

disinfectants

1.3. Details of the supplier of the safety data sheet

Address:

Wassenburg Medical B.V.
Edisonring 9
NL-6669 NA Dodewaard
Telephone no. +31 (0)488 700 500
Fax no. +31 (0)488 453 685
www.wassenburgmedical.nl

E-mail address of person responsible for this SDS:

sida@drweigert.de

1.4. Emergency telephone number

01 809 2166 (National Poisons Information Centre), 8 am - 10 pm, 7 days a week

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Org. Perox. F	H242
Skin Corr. 1A	H314
Eye Dam. 1	H318
Acute Tox. 4	H302
Acute Tox. 4	H332
STOT SE 3	H335
Met. Corr. 1	H290
Aquatic Chronic 1	H410

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H242	Heating may cause a fire.
H290	May be corrosive to metals.

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H302+H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
Dispose only when container is empty and closed. For disposal of product residues, refer to safety data sheet.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains hydrogen peroxide solution; peroxyacetic acid; acetic acid

2.3. Other hazards

No special hazards have to be mentioned. The product contains no PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

acetic acid

CAS No. 64-19-7
EINECS no. 200-580-7
Registration no. 01-2119475328-30
Concentration ≥ 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 3 H226
Skin Corr. 1A H314

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

Eye Irrit. 2 H319 ≥ 10 < 25
Skin Corr. 1A H314 ≥ 90
Skin Corr. 1B H314 ≥ 25 < 90
Skin Irrit. 2 H315 ≥ 10 < 25

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

peroxyacetic acid

CAS No. 79-21-0
EINECS no. 201-186-8
Registration no. 01-2119531330-56
Concentration ≥ 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)
Org. Perox. D H242
Flam. Liq. 3 H226
Acute Tox. 4 H302
Acute Tox. 4 H312
Acute Tox. 4 H332
Skin Corr. 1A H314
Aquatic Acute 1 H400

Route of exposure: oral
Route of exposure: dermal
Route of exposure: inhalative

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

STOT SE 3 H335 >= 1

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B, D

hydrogen peroxide solution

CAS No. 7722-84-1

EINECS no. 231-765-0

Registration no. 01-2119485845-22

Concentration >= 10 < 25 %

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

Ox. Liq. 1 H271

Acute Tox. 4 H302

Acute Tox. 4 H332

Skin Corr. 1A H314

Route of exposure: oral

Route of exposure: inhalative

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

Eye Dam. 1 H318 >= 8 < 50

Eye Irrit. 2 H319 >= 5 < 8

Ox. Liq. 1 H271 >= 70

Ox. Liq. 2 H272 >= 50 < 70

Skin Corr. 1A H314 >= 70

Skin Corr. 1B H314 >= 50 < 70

Skin Irrit. 2 H315 >= 35 < 50

STOT SE 3 H335 >= 35

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

Other information

Complete text of hazard statements in chapter 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. When spray fog inhaled, seek medical aid.

After skin contact

After contact with skin, wash immediately with plenty of water. Take medical treatment.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

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In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, Dry powder, Carbon dioxide, Water spray jet

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand). Do not pick up with the help of saw-dust or other combustible substances. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Observe the usual precautions for handling chemicals. Keep container tightly closed.

Advice on protection against fire and explosion

The product is combustible. Keep away from sources of heat and ignition. Keep away from combustible material.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value > 0 < 25 °C

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage classes

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Storage class according to
TRGS 510

5.2

Organic peroxides and self-reactive hazardous
substances

Further information on storage conditions

Protect from heat and direct sunlight. Do not keep the container sealed.

7.3. Specific end use(s)

no data

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

acetic acid

List	OELV			
Value	25	mg/m ³	10	ppm(V)
Short term exposure limit	37	mg/m ³	15	ppm(V)

hydrogen peroxide solution

List	OELV			
Value	1.5	mg/m ³	1	ppm(V)
Short term exposure limit	3	mg/m ³	2	ppm(V)

peroxyacetic acid

Short term exposure limit 0,4 ppm(V)

Status: 11/2019; Remarks: Inhalable fraction; 15 minutes average value

Other information

There are not known any further control parameters.

8.2. Exposure controls

General protective and hygiene measures

Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Multi-range filter ABEK/P3

Hand protection

Chemical resistant gloves

Use	Occasional hand contact
Appropriate Material	neoprene
Material thickness	>= 0,65 mm
Breakthrough time	> 120 min
Appropriate Material	butyl
Material thickness	>= 0,7 mm
Breakthrough time	> 120 min

Hand protection must comply with EN 374.

Eye protection

Face shield; Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry. Protective shoes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid

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Colour	colourless		
Odour	pungent		
Odour threshold			
Remarks	not determined		
pH value			
Value	< 2		
Temperature	20	°C	
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Initial boiling point and boiling range			
Value	appr. 108	°C	
Flash point			
Value	> 60	°C	
Evaporation rate (ether = 1) :			
Remarks	not determined		
Flammability (solid, gas)			
evaluation	Not applicable		
Upper/lower flammability or explosive limits			
Remarks	not determined		
Vapour pressure			
Remarks	not determined		
Vapour density			
Remarks	not determined		
Density			
Value	1,12	g/cm ³	
Temperature	20	°C	
Solubility in water			
Remarks	Completely miscible		
Solubility(ies)			
Remarks	not determined		
Partition coefficient: n-octanol/water			
Remarks	not determined		
Ignition temperature			
Remarks	not determined		
Decomposition temperature			
Value	> 60	°C	
Remarks	SADT for receptacles up to 60 kg		
Value	> 50	°C	
Remarks	SADT for receptacles > 60 kg		
Viscosity			
dynamic			
Value	< 50	mPa.s	
Temperature	20	°C	
Explosive properties			

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evaluation	not determined
Oxidising properties	
evaluation	oxidizing

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

As oxidising agent, attacks organic substances such as wood, paper, fats.

10.2. Chemical stability

Protect from contamination.

10.3. Possibility of hazardous reactions

Protect from contamination.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Reactions with combustible substances. Product reacts with: Alkalis, Amines, Reducing agents

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Species	rat				
ATE	300	to	2000	mg/kg	
Method	calculated value (Regulation (EC) No. 1272/2008)				

Acute oral toxicity (Components)

acetic acid

Species	rat				
LD50	3310			mg/kg	

hydrogen peroxide solution

Species	rat				
LD50	418	to	445	mg/kg	

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

ATE	1	to	5	mg/l	
Administration/Form	Dust/Mist				
Method	calculated value (Regulation (EC) No. 1272/2008)				

Skin corrosion/irritation

evaluation	strongly corrosive
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Serious eye damage/irritation

evaluation	strongly corrosive
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Sensitization

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Remarks	Based on available data, the classification criteria are not met.
Subacute, subchronic, chronic toxicity	
Remarks	Based on available data, the classification criteria are not met.
Mutagenicity	
Remarks	Based on available data, the classification criteria are not met.
Reproductive toxicity	
Remarks	Based on available data, the classification criteria are not met.
Carcinogenicity	
Remarks	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity (STOT)	
Remarks	Inhalation may lead to irritation of the respiratory tract.
Aspiration hazard	
Based on available data, the classification criteria are not met.	
Experience in practice	
Inhalation may lead to irritation of the respiratory tract.	
Other information	
There is no data available on the product apart from the information given in this subsection.	

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

acetic acid

Species	Fathead minnow (<i>Pimephales promelas</i>)
LC50	106 mg/l
Duration of exposure	24 h

acetic acid

Species	golden orfe (<i>Leuciscus idus</i>)
LC50	408 to 410 mg/l
Duration of exposure	48 h

peroxyacetic acid

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)
LC50	0,91 mg/l
Duration of exposure	96 h

hydrogen peroxide solution

Species	Fathead minnow (<i>Pimephales promelas</i>)
LC50	16,4 mg/l
Duration of exposure	96 h

Daphnia toxicity (Components)

acetic acid

Species	Daphnia magna
EC50	47 to 95 mg/l
Duration of exposure	24 h

peroxyacetic acid

Species	Daphnia magna
EC50	0,69 mg/l
Duration of exposure	48 h

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hydrogen peroxide solution

Species	Daphnia pulex	
EC50	2,4	mg/l
Duration of exposure	48	h

Algae toxicity (Components)

hydrogen peroxide solution

Species	Chlorella vulgaris	
IC50	4,3	mg/l
Duration of exposure	72	h

hydrogen peroxide solution

Species	Skeletonema costatum	
EC50	1,38	mg/l
Duration of exposure	72	h

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Evaluation of persistence and bioaccumulation potential

The product contains no PBT or vPvB substances.

12.6. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D		
IMDG-Code segregation group		16 Peroxides	
14.1. UN number	3109	3109	3109
14.2. UN proper shipping name	ORGANIC PEROXIDE TYPE F, LIQUID, stabilized (peroxyacetic acid)	ORGANIC PEROXIDE TYPE F, LIQUID, stabilized (peroxyacetic acid)	ORGANIC PEROXIDE TYPE F, LIQUID, stabilized (peroxyacetic acid)
14.3. Transport hazard class(es)	5.2	5.2	5.2
Subsidiary risk	8	8	8
Label			
Limited Quantity	125 ml		
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

Information for all modes of transport

14.6. Special precautions for user

See Sections 6 to 8

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

Major-accident categories acc. 2012/18/EU

Category	P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	50000	kg	200000	kg
Category	E1	Hazardous to the Aquatic Environment	100000	kg	200000	kg

Water Hazard Class (Germany)

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Water Hazard Class
(Germany)
Remarks

WGK 2

Derivation of WGK according to Annex 1 No. 5.2 AwSV

VOC

VOC (EU) 0 %

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H271	May cause fire or explosion; strong oxidizer.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Flam. Liq. 3	Flammable liquid, Category 3
Org. Perox. D	Organic peroxide, Type D
Ox. Liq. 1	Oxidising liquid, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
IMO: International Maritime Organization
IMDG: International Maritime Code for Dangerous Goods
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
VOC: Volatile Organic Compound
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)
IBC: Intermediate Bulk Container
LD: Lethal dose
LC: Lethal concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very persistent and very bioaccumulative
SVHC: Substances of very high concern
CAS: Chemical Abstracts Service
TSCA: Toxic Substances Control Act (USA)
IMO: International Maritime Organization
GHS: Globally Harmonized System of classification and Labelling of Chemicals
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
UN: United Nations

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

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guarantee for any specific product properties and shall not establish a legally valid relationship.