
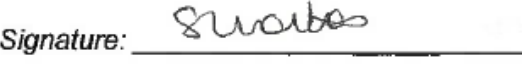


CHANGING DISINFECTANT DETERGENT IN WASSENBERG ENDOSCOPE WASHER DISINFECTOR	
Version Number	4
Date of Issue	January 2020
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New HSE Guidelines	To bring in line with new standards
Updated the following sections: Introduction, Risk from Chemicals, Procedure, References	

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1.0 Introduction

- To outline the correct procedure for changing the disinfectant and detergent in the Wassenburg Washer Disinfector.

2.0 Definition of Terms

Wassenburg washer / disinfector: Endoscope Washer Disinfector (EWD), which carries out automated leak testing, washing, rinsing and high level disinfection of heat sensitive flexible, channelled and un-channelled endoscopes.

Wassenburg Endohigh PAA Disinfectant (presently in use): disinfectant used for decontamination of endoscopes. The composition is based on a Hydrogen Peroxide and Peracetic Acid formulation. (Safety Data Sheet – Appendix 1)

Wassenburg Endohigh Detergent (presently in use): is a blend of detergents and solubilizers (Safety Data Sheet Appendix 2). Both are fully compatible with each other.

3.0 Responsibility

It is the responsibility of each nurse & Endoscopy HCA to change the disinfectant and detergent in the Wassenburg Endoscope Washer Disinfector and to follow the correct procedure.


4.0 Risk from Chemicals

“Health and Welfare at Work Acts 2005 and 2010 require employers to ensure as far as is reasonable practicable, the health, safety and welfare of all employees. The Act also requires employees to comply with the precautions established to ensure safe working. The Safety, Health and Welfare at work (Chemical Agents) Regulations 2001 require employers to assess the risk to the health of staff by exposure to hazardous chemicals to minimize and to avoid such exposure where this is reasonably practicable and otherwise to ensure adequate control.

There may be a risk to staff from chemicals used in the process, such as detergents and disinfectants, which may include components of peracetic acid, chlorine dioxide, hydrogen peroxide and enzymatic detergents, some of which have occupational exposure limits”.

5.0 Procedure

- Warning screens are displayed on the washer / disinfector and an intermittent audible alarm sounds to alert the operator when the disinfectant or detergent containers are empty. **Do not abort cycle**, just press function and change relevant container and proceed.
- Personal protective clothing must be worn; mask and eye protection for changing detergent, respiratory mask Ref no 3M 6800 with filter Ref no 6059 for changing PAA plus plastic apron and micro-touch gloves.

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- Record batch number and date of change of product in Chemical Record Book (kept in drawer beside Wassenburg washer / disinfectant) and record date of opening on the relevant container. Endohigh detergent is usable for 1 year after opening. Endohigh disinfectant (PAA) is usable for 4 weeks after opening.
- Wear PPE as indicated above. Open both bottom drawers of machine. Place new container of detergent or disinfectant beside the relevant empty one. Unscrew cap of new container by using the blue spanner (found in the chemical record file), then remove cap from empty container. Lift out empty container, replace with new container and secure siphon cap in place. Use the new cap to put on empty container and remove to disposal room 6 for safe disposal.
- For PAA disposal, leaving on your respiratory mask, take the almost empty container to disposal room 6. The PAA container is filled completely with cold water and emptied into sluice hopper x 3 times. Then it is flushed. Deface the container as it is no longer considered hazardous. The emptied PAA container can be discarded into the "Household" bin. (PAA is toxic to the environment). Remove and clean the respiratory mask and place back in press in the decontamination room.
- Any residual **detergent** remaining in the container can be flushed down the sluice hopper. The empty **detergent** container can be discarded into the "Household" bin.

6.0 References

HSE Standards and Recommended Practices for Facility Design and Equipping of Endoscope Decontamination Units April 2019

Wassenburg Endoscope Washer Disinfector User Manual

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7.0 Appendices

Appendix 1

Safety data sheet in accordance with regulation (EC) No 1907/2006

WASSENBURG
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Wassenburg EndoHigh PAA

Version: 1 / GB

Replaces Version: - / GB

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

1.1. Product identifier

Wassenburg EndoHigh PAA

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

Use of the substance/preparation
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

GBK/ Infotrac: (USA domestic) 1 800 535 5053 or international +1 352 323 3500

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
H290

Heating may cause a fire.
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/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.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

acetic acid

CAS No.	64-19-7
EINECS no.	200-580-7
Registration no.	01-2119475328-30
Concentration	>= 10 < 25 %
Classification	C, R35 R10

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

Skin Corr. 1A	H314
Flam. Liq. 3	H226

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

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

peroxyacetic acid

CAS No.	79-21-0
EINECS no.	201-186-8
Registration no.	01-2119531330-56
Concentration	>= 10 < 25 %
Classification	Xn, R20/21/22 O, R7 N, R50 C, R35 R10

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

Flam. Liq. 3	H226
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Aquatic Acute 1	H400
Skin Corr. 1A	H314
Acute Tox. 4	H302
Acute Tox. 4	H312
Org. Perox. D	H242
Acute Tox. 4	H332

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

STOT SE 3	H335	>= 1
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hydrogen peroxide solution

CAS No.	7722-84-1
EINECS no.	231-765-0
Registration no.	01-2119485845-22
Concentration	>= 10 < 25 %
Classification	Xn, R20/22 O, R8 C, R35 R5

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

Ox. Liq. 1	H271
Acute Tox. 4	H332
Acute Tox. 4	H302
Skin Corr. 1A	H314

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

Ox. Liq. 1	H271	>= 70
Skin Corr. 1B	H314	<= 50 < 70
Eye Irrit. 2	H319	<= 5 < 8
Eye Dam. 1	H318	<= 8 < 50
Skin Corr. 1A	H314	>= 70
Ox. Liq. 2	H272	<= 50 < 70
Skin Irrit. 2	H315	<= 35 < 50
STOT SE 3	H335	>= 35

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!

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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

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

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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 class according to TRGS 510

Storage class according to TRGS 510	5.2	Organic peroxides and self-reactive hazardous substances
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7.3. Specific end use(s)

no data

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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.

Hand protection

Chemical resistant gloves (EN 374)

Appropriate Material neoprene

Appropriate Material butyl rubber

Appropriate Material nitrile

Eye protection

Safety glasses with side protection shield (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
Colour	colourless
Odour	pungent
Odour threshold	
Remarks	not determined
pH value	
Value	< 1
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Value	appr. 108 °C

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Flash point			
Value	>	60	°C
Evaporation rate (ether = 1) :			
Remarks		not determined	
Flammability (solid, gas)			
evaluation		not determined	
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
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			
Remarks		not determined	
Viscosity			
Remarks		not determined	
Explosive properties			
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.

Decomposition temperature

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Remarks not determined

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	> 500			mg/kg

Acute dermal toxicity

Remarks not determined

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 corrosive

Serious eye damage/irritation

evaluation corrosive
Remarks Risk of serious damage to eyes.

Sensitization

Remarks not determined

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks Inhalation may lead to irritation of the respiratory tract.

Aspiration hazard

No special hazards have to be mentioned.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

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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	

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	2,5		mg/l
Duration of exposure	72	h	

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

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<p>Partition coefficient: n-octanol/water Remarks not determined</p> <p>12.4. Mobility in soil General information not determined</p> <p>12.5. Results of PBT and vPvB assessment General information not determined</p> <p>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.</p>	
SECTION 13: Disposal considerations	
<p>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.</p>	
SECTION 14: Transport information	
Land transport ADR/RID	
14.1. UN number UN 3109	
14.2. UN proper shipping name ORGANIC PEROXIDE TYPE F, LIQUID, stabilized (peroxyacetic acid)	
14.3. Transport hazard class(es)	
Class	5.2
Label	5.2 8
Limited Quantity	125 ml
Transport category	2
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS Tunnel restriction code D	
Marine transport IMDG/GGVSee	
14.1. UN number UN 3109	
14.2. UN proper shipping name ORGANIC PEROXIDE TYPE F, LIQUID, stabilized (peroxyacetic acid)	
14.3. Transport hazard class(es)	
Class	5.2
Subsidiary risk	8
14.5. Environmental hazards Marine Pollutant IMDG-Code segregation 16 Peroxides	

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group

Air transport ICAO/IATA

- 14.1. UN number
UN 3109
- 14.2. UN proper shipping name
ORGANIC PEROXIDE TYPE F, LIQUID, stabilized (peroxyacetic acid)
- 14.3. Transport hazard class(es)
Class 5.2
- 14.5. Environmental hazards
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 MARPOL73/78 and the IBC Code
Not applicable

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 (Germany) | WGK 2 |
| Remarks | Classification according to Annex 4 VwVwS |

VOC

- | | | |
|----------|---|---|
| VOC (EU) | 0 | % |
|----------|---|---|

Other information

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

15.2. Chemical safety assessment

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

SECTION 16: Other information

R-phrases listed in Chapter 3

- | | |
|----------|---|
| 10 | Flammable. |
| 20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| 20/22 | Harmful by inhalation and if swallowed. |
| 35 | Causes severe burns. |
| 5 | Heating may cause an explosion. |
| 50 | Very toxic to aquatic organisms. |
| 7 | May cause fire. |
| 8 | Contact with combustible material may cause fire. |

Hazard statements listed in Chapter 3

- | | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H242 | Heating may cause a fire. |
| H271 | May cause fire or explosion; strong oxidiser. |
| 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. |

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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

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.