Printing date 04/03/2020 Reviewed on 04/03/2020

1 Identification

- · Product identifier
- · Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Article number: 16539-30, 16539-40, 16539-35
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

- · Information department: Product safety department
- · Emergency telephone number:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

H317 May cause an allergic skin reaction. Skin Sens. 1

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms









GHS05

GHS06

GHS07

GHS08

(Contd. on page 2)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 1)

- · Signal word Danger
- · Hazard-determining components of labeling:

Glutaraldehyde

· Hazard statements

Toxic if inhaled.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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).

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 4 Fire = 0Reactivity = 1

· HMIS-ratings (scale 0 - 4)



Health = 4 Fire = 0Reactivity = 1

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 2)

· Dangerous components:

111-30-8 Glutaraldehyde

>2.5-*≤*10%

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- · 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: 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: Mouth 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.

Dilute with plenty of water.

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

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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.

(Contd. on page 4)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

· Protective Action Criteria for Chemicals	(Contd. of page
· PAC-1:	
111-30-8 Glutaraldehyde	0.2 ppm
7778-77-0 potassium dihydrogenorthophosphate	9.6 mg/m
· PAC-2:	·
111-30-8 Glutaraldehyde	1 ppm
7778-77-0 potassium dihydrogenorthophosphate	110 mg/m
· PAC-3:	
111-30-8 Glutaraldehyde	5 ppm
	630 mg/m

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · 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 re	eauire monit	toring at th	e worknlace:
Components wan and	raines mai re	счин с топи	oring ai in	e workpiace.

111-30-8 Glutaraldehyde

REL Ceiling limit value: 0.8 mg/m³, 0.2 ppm

See Pocket Guide App. C

TLV Ceiling limit value: 0.2 mg/m³, 0.05 ppm

DSEN;RSEN ;activated or inactivated

- · 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.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

(Contd. on page 5)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 4)

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

· Information on basic physical and chemical properties · General Information						
Appearance:						
Form:	Liquid					
Color:	Colorless					
Odor:	Characteristic					
Odor threshold:	Not determined.					
pH-value at 20 °C (68 °F):	7.4					
Change in condition						
Melting point/Melting range:	Undetermined.					
Boiling point/Boiling range:	Undetermined.					
Flash point:	Not applicable.					
Flammability (solid, gaseous):	Not flammable.					
Decomposition temperature:	Not determined.					
Auto igniting:	Product is not selfigniting.					
Danger of explosion:	Product does not present an explosion hazard.					
Explosion limits:						
Lower:	Not determined.					
Upper:	Not determined.					

(Contd. on page 6)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

	(Cont	td. of page
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.01 g/cm³ (8.42845 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	e r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	94.9 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · 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

111-30-8 Glutaraldehyde Oral LD50 134 mg/kg (rat) Dermal LD50 2,560 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

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

(Contd. on page 7)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 6)

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- · 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.

· OSHA-Ca (Occupational Safety Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark:

Toxic for fish

Harmful to fish

- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Harmful to aquatic organisms

- · 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.

(Contd. on page 8)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

· Recommended cleansing agent: Water, if necessary with cleansing agents.

(Contd. of page 7)

14 Transport information			
· Environmental hazards: Not applicable.			
· Special precautions for user	Not applicable.		
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.		
· UN ''Model Regulation'':	Void		

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):
- All components have the value ACTIVE.
- · Hazardous Air Pollutants

None of the ingredients is listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

111-30-8 Glutaraldehyde

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

(Contd. on page 9)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 8)

· Hazard pictograms









GHS06

GHS07

Signal word Danger

· Hazard-determining components of labeling:

Glutaraldehyde

· Hazard statements

Toxic if inhaled.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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).

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Date of preparation / last revision 04/03/2020 / -

· Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 9)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

us.

Printing date 03.04.2020 Revision: 03.04.2020

1 Identification

- · Product identifier
- · Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Article number: 16539-30, 16539-40, 16539-35
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Electron Microscopy Sciences

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USA-Hatfield, PA 19440

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11 Carlton Street, Kirwan QLD 4817 Australia

Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays) Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)

Website: ems.proscitech.com Emgrid Australia Pty. Ltd.

P.O. Box 118

The Patch VIC 3792

Australia

Tel: 03 9752 1785 Fax: 03 9752 1784

Website: www.emgrid.com.au

- · Further information obtainable from: Product safety department
- · Emergency telephone number:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

(Contd. on page 2)

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 1)



H317 May cause an allergic skin reaction. Skin Sens. 1 STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms









GHS05

GHS08 GHS06 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

Glutaraldehyde

· Hazard statements

Toxic if inhaled.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position 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).

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 2)

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

111-30-8 Glutaraldehyde

>2.5-*≤*10%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- · 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: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth 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.

Dilute with plenty of water.

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

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

(Contd. on page 4)

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 3)

Ensure adequate ventilation.

· 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

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- \cdot *Specific end use*(s) *No further relevant information available.*

8 Exposure controls and personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

111-30-8 Glutaraldehyde

WES Peak limitation: 0.41 mg/m³, 0.1 ppm Sen

- · Additional information: The lists valid during the making 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.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 5)

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 4)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

9 Physical and Chemical Propertie

· Information on basic physical and chemical propert	Information o	ı basic p	physical	and ch	emical i	propertie
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· General Information

· Appearance:

Form: Liquid
Colour: Colourless
Odour: Characteristic
Odour threshold: Not determined.

• pH-value at 20 °C: 7.4

· Change in condition

Melting point/freezing point: Undetermined. **Initial boiling point and boiling range:** Undetermined.

Flash point: Not applicable.
 Flammability (solid, gas): Not applicable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower:Not determined.Upper:Not determined.

· Vapour pressure at 20 °C: 23 hPa

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

Evaporation rate Not determined.

· Solubility in / Miscibility with water: Fully miscible.

· Partition coefficient: n-octanol/water: Not determined.

(Contd. on page 6)

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

	(Contd	. of page 5
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	94.9 %	
VOC (EC)	0.00 %	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · 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 relevant for classification:
111-30-8 Glutaraldohydo

111-30-0	o Giuia	ігашенуае
		134 mg/kg (rat)
Dermal	LD50	2,560 mg/kg (rabbit)

- · Primary irritant effect:
- · Skin corrosion/irritation Strong caustic effect on skin and mucous membranes.
- · Serious eye damage/irritation

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· Respiratory or skin sensitisation

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Toxic

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

AU

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

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12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark:

Toxic for fish

Harmful to fish

- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Harmful to aquatic organisms

- · 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 together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

4 Transport information		
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.		
· UN "Model Regulation":	not regulated	

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 7)

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

111-30-8 Glutaraldehyde

S2, S5, S6

· Australia: Priority Existing Chemicals

111-30-8 Glutaraldehyde

- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms









GHS05 GHS06

IS06 GHS07

GHS08

- · Signal word Danger
- · Hazard-determining components of labelling:

Glutaraldehyde

· Hazard statements

Toxic if inhaled.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position 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).

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category H2 ACUTE TOXIC
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

(Contd. on page 9)

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 8)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Abbreviations and acronyms:

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - inhalation – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

AU

Printing date 04/03/2020 Reviewed on 04/03/2020

1 Identification

- · Product identifier
- · Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Article number: 16539-30, 16539-40, 16539-35
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: in fo@ems diasum.com

www.emsdiasum.com

- · Information department: Product safety department
- · Emergency telephone number:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

2 Hazard identification

· Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Toxicity (Inhalation) - Category 3

H331 Toxic if inhaled.



GHS08 Health hazard

Respiratory Sensitizer - Category 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 Corrosion

Skin Corrosion - Category 1B

H314 Causes severe skin burns and eye damage.

Serious Eye Damage - Category 1 H318 Causes serious eye damage.



GHS07

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure -

H335 May cause respiratory irritation.

Category 3

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

 (Contd. on page 2)

on page

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Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 1)

· Hazard pictograms



- Signal word Danger
- · Hazard-determining components of labeling:

Glutaraldehyde

· Hazard statements

Toxic if inhaled.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

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.

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 4Fire = 0Reactivity = 1

· HMIS-ratings (scale 0 - 4)



Health = 4Fire = 0

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 2)

3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

111-30-8 Glutaraldehyde

1-5% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- · 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: 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: Mouth 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.

Dilute with plenty of water.

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

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

(Contd. on page 4)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 3)

Ensure adequate ventilation.

· 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

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · 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:

111-30-8 Glutaraldehyde

EL Ceiling: 0.05 ppm

S(D), S(R)

EV Ceiling: 0.05 ppm

activated and inactivated

- · 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.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



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Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 4)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

9 Physical	l and c	hemical	properties
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Information on basic physical and o	chemical properties
General Information	
· Appearance: Form:	Liquid
Color:	Colorless
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value at 20 °C:	7.4
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not flammable.
· Decomposition temperature:	Not determined.
· 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 at 20 °C:	23 hPa
· Density at 20 °C:	1.01 g/cm³
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.

(Contd. on page 6)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

		(Contd. of page 5
· Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	94.9 %	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · 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:		
111-30-8 Glutaraldehyde		
Oral	LD50	134 mg/kg (rat)
Dermal	LD50	2,560 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

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

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

(Contd. on page 7)

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 6)

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark:

Toxic for fish

Harmful to fish

- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Harmful to aquatic organisms

- · 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· UN ''Model Regulation'':	Void

CA

Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 7)

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):

All components have the value 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%)

111-30-8 Glutaraldehyde

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









GHS05

15

GHS06 GHS07

GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Glutaraldehyde

· Hazard statements

Toxic if inhaled.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

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.

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Printing date 04/03/2020 Reviewed on 04/03/2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 8)

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

- · Date of the latest revision of the safety data sheet 04/03/2020 / -
- · Abbreviations and acronyms:

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

CA

Printing date 03.04.2020 Revision: 03.04.2020

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

- · 1.1 Product identifier
- · Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Article number: 16539-30, 16539-40, 16539-35
- \cdot 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Electron Microscopy Sciences 1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com www.emsdiasum.com

- · Further information obtainable from: Product safety department
- · 1.4 Emergency telephone number:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 1)

· Hazard pictograms







GHS06

- · Signal word Danger
- · Hazard-determining components of labelling:

Glutaraldehyde

· Hazard statements

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

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/doctor.

Specific treatment (see on this label). P321

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

	· Dangerous compone	ents:	
ſ			>2.5- <i>≤</i> 10%
	EINECS: 203-856-5	Acute Tox. 3, H301; Acute Tox. 2, H330; & Resp. Sens. 1, H334; 较 Skin Corr. 1B, H314; 🔥 Aquatic Acute 1, H400; Aquatic Chronic 2, H411;	
		Corr. 1B, H314; 🚯 Aquatic Acute 1, H400; Aquatic Chronic 2, H411;	
		♦ Skin Sens. 1A, H317; STOT SE 3, H335	

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

(Contd. on page 3)

Printing date 03.04.2020 Revision: 03.04.2020

Trade name: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Contd. of page 2)

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

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

Dilute with plenty of water.

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

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.

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- Further information about storage conditions: Keep container tightly sealed.
- \cdot 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

111-30-8 Glutaraldehyde

WEL Short-term value: 0.2 mg/m³, 0.05 ppm Long-term value: 0.2 mg/m³, 0.05 ppm

Sen

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 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.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

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SECTION 9: Physical and chemi	ical properties
9.1 Information on basic physical and c	chemical properties
General Information	r. · · · · · · · · · · · · · · · · · · ·
Appearance:	
Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value at 20 °C:	7.4
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: Undetermined.
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.01 g/cm^3
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Water:	94.9 %
VOC (EC)	0.00 %
Solids content:	0.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.

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- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

Toxic if inhaled.

· LD/LC50 values relevant for classification:

111-30-8 Glutaraldehyde

Oral LD50 134 mg/kg (rat)
Dermal LD50 2,560 mg/kg (rabbit)

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

· Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause respiratory irritation.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark:

Toxic for fish

Harmful to fish

- · Additional ecological information:
- General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Harmful to aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.

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(Contd. of page 6)

- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

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

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION	14: Transport	t inf	<i>formation</i>
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SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category H2 ACUTE TOXIC
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Relevant phrases

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - oral - Category 3

Acute Tox. 2: Acute toxicity - inhalation – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

- GI

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RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

- · 1.1 Productidentificatie
- · Handelsnaam: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Artikelnummer: 16539-30, 16539-40, 16539-35
- · 1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik Geen verdere relevante informatie verkrijgbaar.
- · Toepassing van de stof / van de bereiding Laboratoriumchemcaliën
- · 1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad
- · Fabrikant/leverancier:

Electron Microscopy Sciences 1560 Industry Road USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Aurion

Binnenhaven 5 6709 PD Wageningen The Netherlands

Tel: 31 317 415094 Fax: 31 317 415955 email: info@aurion.nl

- · Inlichtingengevende sector: Product safety department
- · 1.4 Telefoonnummer voor noodgevallen:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

RUBRIEK 2: Identificatie van de gevaren

- · 2.1 Indeling van de stof of het mengsel
- · Indeling overeenkomstig Verordening (EG) nr. 1272/2008



GHS06 doodshoofd met gekruiste beenderen

Acute Tox. 3 H331 Giftig bij inademing.



GHS08 gezondheidsgevaar

Resp. Sens. 1 H334 Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeilijkheden veroorzaken.



GHS05 corrosie

Skin Corr. 1B H314 Veroorzaakt ernstige brandwonden en oogletsel.

Eye Dam. 1 H318 Veroorzaakt ernstig oogletsel.



(Vervolg op blz. 2)

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Skin Sens. 1 H317 Kan een allergische huidreactie veroorzaken. STOT SE 3 H335 Kan irritatie van de luchtwegen veroorzaken.

Aquatic Chronic 3 H412 Schadelijk voor in het water levende organismen, met langdurige gevolgen.

- · 2.2 Etiketteringselementen
- · Etikettering overeenkomstig Verordening (EG) nr. 1272/2008

Het product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.

· Gevarenpictogrammen







GHS06

- · Signaalwoord Gevaar
- · Gevaaraanduidende componenten voor de etikettering:

Glutaaraldehyd

· Gevarenaanduidingen

H331 Giftig bij inademing.

H314 Veroorzaakt ernstige brandwonden en oogletsel.

H334 Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeilijkheden veroorzaken.

H317 Kan een allergische huidreactie veroorzaken.

H335 Kan irritatie van de luchtwegen veroorzaken.

H412 Schadelijk voor in het water levende organismen, met langdurige gevolgen.

· Veiligheidsaanbevelingen

P303+P361+P353 BIJ CONTACT MET DE HUID (of het haar): verontreinigde kleding onmiddellijk uittrekken. Huid met water afspoelen [of afdouchen].

P305+P351+P338 BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal

minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.

P310 Onmiddellijk een ANTIGIFCENTRUM/arts raadplegen.

P321 Specifieke behandeling vereist (zie op dit etiket).

P362+P364 Verontreinigde kleding uittrekken en wassen alvorens deze opnieuw te gebruiken.

P405 Achter slot bewaren.

De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/ P501

internationale voorschriften.

- · 2.3 Andere gevaren
- · Resultaten van PBT- en zPzB-beoordeling
- · **PBT**: Niet bruikbaar. · zPzB: Niet bruikbaar.

RUBRIEK 3: Samenstelling en informatie over de bestanddelen

- · 3.2 Chemische karakterisering: Mengsels
- · Beschrijving: Mengsel van na elkaar aangevoerde stoffen met ongevaarlijke bijmengingen.

	Canaan	liilaa	inhoud	lataffam.
٠,	Gevaari	ијке	ınnoua	stoffen:

CAS: 111-30-8 EINECS: 203-856-5 Glutaaraldehyd

🔗 Acute Tox. 3, H301; Acute Tox. 2, H330; & Resp. Sens. 1, H334; 🕎 Skin

Corr. 1B, H314; 🖎 Aquatic Acute 1, H400; Aquatic Chronic 2, H411;

🕦 Skin Sens. 1A, H317; STOT SE 3, H335

>2,5-*≤*10%

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(Vervolg van blz. 2)

· Aanvullende gegevens:

De woordelijke inhoud van de opgegeven aanwijzingen inzake de mogelijke gevaren is te vinden in hoofdstuk 16.

RUBRIEK 4: Eerstehulpmaatregelen

- · 4.1 Beschrijving van de eerstehulpmaatregelen
- · Algemene informatie:

Verontreinigde kleding onmiddellijk uittrekken.

Het is mogelijk dat vergiftigingssymptomen pas na vele uren optreden. Om deze reden is medische controle gedurende minstens 48 uur na een ongeval noodzakelijk.

Ademhalingstoestel pas afnemen nadat de verontreinigde kleding verwijderd is.

Bij onregelmatige ademhaling of ademstilstand kunstmatige ademhaling toepassen.

· Na het inademen:

Verse lucht of zuurstof toedienen; deskundige medische hulp inroepen.

Bij bewusteloosheid ligging en vervoer in stabiele zijligging.

- · Na huidcontact: Onmiddellijk met water en zeep afwassen en goed naspoelen.
- · Na oogcontact: Ogen met open ooglid een aantal minuten onder stromend water afspoelen en dokter raadplegen.
- · Na inslikken:

Onmiddellijk arts raadplegen.

Drink zeer veel water en voer verse lucht aan. Onmiddellijk een dokter waarschuwen.

- · 4.2 Belangrijkste acute en uitgestelde symptomen en effecten Geen verdere relevante informatie verkrijgbaar.
- \cdot 4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling

Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 5: Brandbestrijdingsmaatregelen

- · 5.1 Blusmiddelen
- · Geschikte blusmiddelen: Brandblusmaatregelen op omgeving afstemmen.
- \cdot 5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt

Geen verdere relevante informatie verkrijgbaar.

- · 5.3 Advies voor brandweerlieden
- · Speciale beschermende kleding: Ademhalingstoestel aantrekken.

RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

· 6.1 Persoonlijke voorzorgsmaatregelen, beschermde uitrusting en noodprocedures

Beschermende kleding aantrekken. Niet beschermde personen op afstand houden.

· 6.2 Milieuvoorzorgsmaatregelen:

Bij indringen in afvalwater of riolering moet de bevoegde instantie gewaarschuwd worden.

Met veel water verdunnen.

Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.

· 6.3 Insluitings- en reinigingsmethoden en -materiaal:

Met vloeistofbindend materiaal (zand, bergmeel, zuurbinder, universele binder, zaagmeel) opnemen.

Neutralisatiemiddel gebruiken.

Besmet materiaal zoals afval volgens punt 13 verwijderen.

Voor voldoende ventilatie zorgen.

· 6.4 Verwijzing naar andere rubrieken

Informatie inzake veilig gebruik - zie hoofdstuk 7.

Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.

(Vervolg op blz. 4)

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(Vervolg van blz. 3)

Informatie inzake berging - zie hoofdstuk 13.

RUBRIEK 7: Hantering en opslag

· 7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel

Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.

Tanks vorzichtig openen en behandelen.

Aërosolvorming vermijden.

- · Informatie m.b.t. brand- en ontploffingsgevaar: Ademhalingstoestellen gereedhouden.
- · 7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten
- · Opslag:
- · Eisen ten opzichte van opslagruimte en tanks: Geen bijzondere eisen.
- · Informatie m.b.t. gezamenlijke opslag: Niet noodzakelijk.
- · Verdere inlichtingen over eisen m.b.t. de opslag: Tanks ondoordringbaar gesloten houden.
- · 7.3 Specifiek eindgebruik Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- · Aanvullende gegevens m.b.t. de inrichting van technische installaties: Geen aanvullende gegevens. Zie 7.
- · 8.1 Controleparameters
- · Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:

Het produkt bevat geen relevante hoeveelheden van stoffen, die met betrekking tot de werkplaatsen, qua grenswaarden gecontroleerd moeten worden.

- · Aanvullende gegevens: Als basis dienden lijsten die bij opstelling geldig waren.
- · 8.2 Maatregelen ter beheersing van blootstelling
- · Persoonlijke beschermingsvoorzieningen:
- · Algemene beschermings- en gezondheidsmaatregelen:

Verwijderd houden van eet- en drinkwaren.

Verontreinigde kleding onmiddellijk uittrekken.

Vóór de pauze en aan het einde van werktijd handen wassen.

Beschermende kleding afzonderlijk bewaren.

Aanraking met de ogen vermijden.

Aanraking met de ogen en de huid vermijden.

· Ademhalingsbescherming:

Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingstoestel gebruiken.

· Handbescherming:



Veiligheidshandschoenen

Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.

Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding /

Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.

Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.

· Handschoenmateriaal

De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant. Aangezien het product uit meerdere stoffen is samengesteld, is de duurzaamheid van de handschoenmaterialen niet vooraf berekenbaar en moet derhalve vóór het gebruik worden getest.

(Vervolg op blz. 5)

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· Doordringingstijd van het handschoenmateriaal

De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.

· Oogbescherming:



Nauw aansluitende veiligheidsbril

· 9.1 Informatie over fysische en chemische basiseigenschappen · Algemene gegevens				
Vorm:	Vloeistof			
Kleur:	Kleurloos			
Geur:	Karakteristiek			
Geurdrempelwaarde:	Niet bepaald.			
pH-waarde bij 20°C:	7,4			
Toestandsverandering				
Smelt-/vriespunt:	Niet bepaald.			
Beginkookpunt en kooktraject:	Niet bepaald.			
Vlampunt:	Niet bruikbaar.			
Ontvlambaarheid (vast, gas):	Niet bruikbaar.			
Ontledingstemperatuur:	Niet bepaald.			
Zelfontbrandingstemperatuur:	Het produkt ontbrandt niet uit zichzelf.			
Ontploffingseigenschappen:	Het produkt is niet ontploffingsgevaarlijk.			
Ontploffingsgrenzen:				
Onderste:	Niet bepaald.			
Bovenste:	Niet bepaald.			
Dampspanning bij 20°C:	23 hPa			
Dichtheid bij 20°C:	$1,01 \text{ g/cm}^3$			
Relatieve dichtheid	Niet bepaald.			
Dampdichtheid	Niet bepaald.			
Verdampingssnelheid	Niet bepaald.			
Oplosbaarheid in/mengbaarheid met				
Water:	Volledig mengbaar.			
Verdelingscoëfficiënt: n-octanol/water	: Niet bepaald.			
Viscositeit				
Dynamisch:	Niet bepaald.			
Kinematisch:	Niet bepaald.			
Oplosmiddelgehalte:				
Water:	94,9 %			
VOC(EG)	0,00 %			

(Vervolg op blz. 6)

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(Vervolg van blz. 5)

· 9.2 Overige informatie

Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 10: Stabiliteit en reactiviteit

- · 10.1 Reactiviteit Geen verdere relevante informatie verkrijgbaar.
- · 10.2 Chemische stabiliteit
- · Thermische afbraak / te vermijden omstandigheden: Geen afbraak bij gebruik volgens voorschrift.
- · 10.3 Mogelijke gevaarlijke reacties Geen gevaarlijke reacties bekend.
- · 10.4 Te vermijden omstandigheden Geen verdere relevante informatie verkrijgbaar.
- · 10.5 Chemisch op elkaar inwerkende materialen: Geen verdere relevante informatie verkrijgbaar.
- · 10.6 Gevaarlijke ontledingsproducten: Geen gevaarlijke ontbindingsprodukten bekend.

RUBRIEK 11: Toxicologische informatie

- · 11.1 Informatie over toxicologische effecten
- · Acute toxiciteit

Giftig bij inademing.

· Indelingsrelevantie LD/LC50-waarden:

111-30-8 Glutaaraldehyd

Oraal LD50 134 mg/kg (rat)
Dermaal LD50 2.560 mg/kg (rabbit)

- · Primaire aandoening:
- · Huidcorrosie/-irritatie

Veroorzaakt ernstige brandwonden en oogletsel.

· Ernstig oogletsel/oogirritatie

Veroorzaakt ernstig oogletsel.

· Sensibilisatie van de luchtwegen/de huid

Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeilijkheden veroorzaken.

Kan een allergische huidreactie veroorzaken.

- · CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)
- · Mutageniteit in geslachtscellen Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- · Kankerverwekkendheid Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- · Giftigheid voor de voortplanting Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- · STOT bij eenmalige blootstelling

Kan irritatie van de luchtwegen veroorzaken.

- · STOT bij herhaalde blootstelling Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- · Gevaar bij inademing Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

RUBRIEK 12: Ecologische informatie

- · 12.1 Toxiciteit
- · Aquatische toxiciteit: Geen verdere relevante informatie verkrijgbaar.
- · 12.2 Persistentie en afbreekbaarheid Geen verdere relevante informatie verkrijgbaar.
- · 12.3 Bioaccumulatie Geen verdere relevante informatie verkrijgbaar.
- · 12.4 Mobiliteit in de bodem Geen verdere relevante informatie verkrijgbaar.
- · Ecotoxische effecten:
- · Opmerking:

Giftig voor vissen.

Schadelijk voor vissen.

(Vervolg op blz. 7)

Bladzijde: 7/8

Veiligheidsinformatieblad volgens 1907/2006/EG, Artikel 31

datum van de druk: 03.04.2020 Herziening van: 03.04.2020

Handelsnaam: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Vervolg van blz. 6)

- · Verdere ecologische informatie:
- · Algemene informatie:

Waterbezwaarlijkheid (NL): A(2) vergiftig voor in water levende organismen kan in het aquatische milieu op lange termijn schadelijke effecten veroorzaken

Gevaar voor water klasse 3 (D) (Zelfclassificatie): gevaar voor water groot

Niet lozen in grondwater, oppervlaktewater of riolering, ook niet in kleine hoeveelheden.

Mag niet onverdund of niet geneutraliseerd in oppervlaktewater of in afwateringskanaal geloosd worden.

Gevaar voor drinkwater zelfs bij het uitlopen van zeer geringe hoeveelheden in de ondergrond.

In oppervlaktewater ook giftig voor vissen en plankton.

giftig voor in het water levende organismen

schadelijk voor in het water levende organismen

- · 12.5 Resultaten van PBT- en zPzB-beoordeling
- · **PBT**: Niet bruikbaar.
- · zPzB: Niet bruikbaar.
- · 12.6 Andere schadelijke effecten Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 13: Instructies voor verwijdering

- · 13.1 Afvalverwerkingsmethoden
- · Aanbeveling: Mag niet tesamen met huisvuil gestort worden of in de riolering terechtkomen.
- · Niet gereinigde verpakkingen:
- · Aanbeveling: Afvalverwijdering volgens overheidsbepalingen.
- · Aanbevolen reinigingsmiddel: Water, eventueel met toevoeging van reinigingsmiddelen.

RUBRIEK 14: Informatie met betrekking tot het vervoer

· 14.5 Milieugevaren:	Niet bruikbaar.
· 14.6 Bijzondere voorzorgen voor de gebruiker	Niet bruikbaar.
· 14.7 Vervoer in bulk overeenkomstig bijlage II b Marpol en de IBC-code	vij Niet bruikbaar.
· VN ''Model Regulation'':	Niet van toepassing

RUBRIEK 15: Regelgeving

- · 15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel
- · SZW-lijst van kankerverwekkende stoffen

geen der bestanddelen staat op de lijst.

· SZW-lijst van mutagene stoffen

geen der bestanddelen staat op de lijst.

 \cdot NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid

geen der bestanddelen staat op de lijst.

· NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling

geen der bestanddelen staat op de lijst.

· NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding

geen der bestanddelen staat op de lijst.

(Vervolg op blz. 8)

Bladzijde: 8/8

Veiligheidsinformatieblad volgens 1907/2006/EG, Artikel 31

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Handelsnaam: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Vervolg van blz. 7)

· Lijst Zeer Zorgwekkende Stoffen (ZZS)

geen der bestanddelen staat op de lijst.

· Lijst van Potentieel Zeer Zorgwekkende Stoffen

111-30-8 Glutaaraldehyd

- · Richtlijn 2012/18/EU
- · Gevaarlijke stoffen die met naam genoemd worden BIJLAGE I geen der bestanddelen staat op de lijst.
- · Seveso-categorie H2 ACUUT TOXISCH
- · Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen 50 t
- Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen 200 t
- · Verordening (EG) nr. 1907/2006 BIJLAGE XVII Beperkingsvoorwaarden: 3
- · Nationale voorschriften:
- · Gevaarklasse v. water:

Waterbezwaarlijkheid (NL): A(2) vergiftig voor in water levende organismen kan in het aquatische milieu op lange termijn schadelijke effecten veroorzaken

· 15.2 Chemischeveiligheidsbeoordeling: Een chemische veiligheidsbeoordeling is niet uitgevoerd.

RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

· Relevante zinnen

H301 Giftig bij inslikken.

H314 Veroorzaakt ernstige brandwonden en oogletsel.

H317 Kan een allergische huidreactie veroorzaken.

H330 Dodelijk bij inademing.

H334 Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeilijkheden veroorzaken.

H335 Kan irritatie van de luchtwegen veroorzaken.

H400 Zeer giftig voor in het water levende organismen.

H411 Giftig voor in het water levende organismen, met langdurige gevolgen.

· Afkortingen en acroniemen:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxiciteit - oraal – Categorie 3

Acute Tox. 2: Acute toxiciteit - inademing - Categorie 2

Skin Corr. 1B: Huidcorrosie/-irritatie – Categorie 1B

Eye Dam. 1: Ernstig oogletsel/oogirritatie – Categorie 1 Resp. Sens. 1: Sensibilisatie van de luchtwegen – Categorie 1

Skin Sens. 1: Sensibilisatie van de huid - Categorie 1

Skin Sens. 1A: Sensibilisatie van de huid - Categorie 1A

STOT SE 3: Specifieke doelorgaantoxiciteit bij eenmalige blootstelling – Categorie 3

Aquatic Acute 1: Gevaar voor het aquatisch milieu - acuut aquatisch gevaar – Categorie 1

Aquatic Chronic 2: Gevaar voor het aquatisch milieu - aquatisch gevaar op lange termijn – Categorie 2

Aquatic Chronic 3: Gevaar voor het aquatisch milieu - aquatisch gevaar op lange termijn – Categorie 3

NI

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Fiche de données de sécurité selon 1907/2006/CE, Article 31

RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

- · 1.1 Identificateur de produit
- · Nom du produit: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Code du produit: 16539-30, 16539-40, 16539-35
- · 1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées Pas d'autres informations importantes disponibles.
- · Emploi de la substance / de la préparation Produits chimiques pour laboratoires
- · 1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité
- · Producteur/fournisseur:

Electron Microscopy Sciences 1560 Industry Road USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com www.emsdiasum.com

- · Service chargé des renseignements: Product safety department
- · 1.4 Numéro d'appel d'urgence:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

RUBRIQUE 2: Identification des dangers

- · 2.1 Classification de la substance ou du mélange
- · Classification selon le règlement (CE) n° 1272/2008



GHS06 tête de mort sur deux tibias

Acute Tox. 3 H331 Toxique par inhalation.



GHS08 danger pour la santé

Resp. Sens. 1 H334 Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation.



GHS05 corrosion

Skin Corr. 1B H314 Provoque des brûlures de la peau et de graves lésions des yeux.

Eye Dam. 1 H318 Provoque de graves lésions des yeux.



GHS07

Skin Sens. 1 H317 Peut provoquer une allergie cutanée. STOT SE 3 H335 Peut irriter les voies respiratoires.

Aquatic Chronic 3 H412 Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme.

- · 2.2 Éléments d'étiquetage
- · Etiquetage selon le règlement (CE) n° 1272/2008 Le produit est classifié et étiqueté selon le règlement CLP.

(suite page 2)

(suite de la page 1)

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· Pictogrammes de danger





GHS05

05 GHS06 GHS

- · Mention d'avertissement Danger
- · Composants dangereux déterminants pour l'étiquetage: glutaral
- · Mentions de danger

H331 Toxique par inhalation.

H314 Provoque des brûlures de la peau et de graves lésions des yeux.

H334 Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation.

H317 Peut provoquer une allergie cutanée.

H335 Peut irriter les voies respiratoires.

H412 Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme.

· Conseils de prudence

P303+P361+P353 EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): Enlever immédiatement tous les

vêtements contaminés. Rincer la peau à l'eau [ou se doucher].

P305+P351+P338 EN CAS DE CONTACT AVEC LES YEUX: Rincer avec précaution à l'eau pendant plusieurs

minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être

facilement enlevées. Continuer à rincer.

P310 Appeler immédiatement un CENTRE ANTIPOISON/un médecin.

P321 Traitement spécifique (voir sur cette étiquette).

P362+P364 Enlever les vêtements contaminés et les laver avant réutilisation.

P405 Garder sous clef.

P501 Éliminer le contenu/récipient conformément à la réglementation locale/régionale/nationale/

in ternationale.

- · 2.3 Autres dangers
- · Résultats des évaluations PBT et vPvB
- · **PBT**: Non applicable. · **vPvB**: Non applicable.

RUBRIQUE 3: Composition/informations sur les composants

- · 3.2 Caractérisation chimique: Mélanges
- · Description: Mélange des substances mentionnées à la suite avec des additifs non dangereux.

· Composants dangereux:					
	0	>2,5-≤10%			
EINECS: 203-856-5	Acute Tox. 3, H301; Acute Tox. 2, H330; & Resp. Sens. 1, H334; ◇ Skin Corr. 1B, H314; ◇ Aquatic Acute 1, H400; Aquatic Chronic 2, H411;				
	Corr. 1B, H314; 🖎 Aquatic Acute 1, H400; Aquatic Chronic 2, H411;				
	♦ Skin Sens. 1A, H317; STOT SE 3, H335				

· Indications complémentaires: Pour le libellé des phrases de risque citées, se référer au chapitre 16.

RUBRIQUE 4: Premiers secours

- · 4.1 Description des premiers secours
- · Remarques générales:

Enlever immédiatement les vêtements contaminés par le produit.

(suite page 3)

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Les symptômes d'intoxication peuvent apparaître après de nombreuses heures seulement; une surveillance médicale est donc nécessaire au moins 48 heures après un accident.

Ne retirer la protection respiratoire qu'après avoir retiré les vêtements contaminés.

Respiration artificielle dans le cas d'une respiration irrégulière ou d'un arrêt respiratoire.

· Après inhalation:

Donner de l'air frais ou de l'oxygène; demander d'urgence une assistance médicale.

En cas d'inconscience, coucher et transporter la personne en position latérale stable.

· Après contact avec la peau: Laver immédiatement à l'eau et au savon et bien rincer.

· Après contact avec les yeux:

Rincer les yeux, pendant plusieurs minutes, sous l'eau courante en écartant bien les paupières et consulter un médecin.

· Après ingestion:

Consulter immédiatement un médecin.

Boire de l'eau en abondance et donner de l'air frais. Consulter immédiatement un médecin.

- · 4.2 Principaux symptômes et effets, aigus et différés Pas d'autres informations importantes disponibles.
- · 4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

Pas d'autres informations importantes disponibles.

RUBRIQUE 5: Mesures de lutte contre l'incendie

- · 5.1 Moyens d'extinction
- · Moyens d'extinction: Adapter les mesures d'extinction d'incendie à l'environnement.
- · 5.2 Dangers particuliers résultant de la substance ou du mélange

Pas d'autres informations importantes disponibles.

- · 5.3 Conseils aux pompiers
- · Equipement spécial de sécurité: Porter un appareil de protection respiratoire.

RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

· 6.1 Précautions individuelles, équipement de protection et procédures d'urgence

Porter un équipement de sécurité. Eloigner les personnes non protégées.

· 6.2 Précautions pour la protection de l'environnement:

En cas de pénétration dans les eaux ou les égouts, avertir les autorités compétentes.

Diluer avec beaucoup d'eau.

Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.

· 6.3 Méthodes et matériel de confinement et de nettoyage:

Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant d'acide, liant universel, sciure).

Utiliser un neutralisant.

Evacuer les matériaux contaminés en tant que déchets conformément au point 13.

Assurer une aération suffisante.

· 6.4 Référence à d'autres rubriques

Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.

Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.

Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

RUBRIQUE 7: Manipulation et stockage

· 7.1 Précautions à prendre pour une manipulation sans danger

Veiller à une bonne ventilation/aspiration du poste de travail.

Ouvrir et manipuler les récipients avec précaution.

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(suite de la page 3)

Eviter la formation d'aérosols.

- · Préventions des incendies et des explosions: Tenir des appareils de protection respiratoire prêts.
- · 7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités
- · Stockage:
- · Exigences concernant les lieux et conteneurs de stockage: Aucune exigence particulière.
- · Indications concernant le stockage commun: Pas nécessaire.
- · Autres indications sur les conditions de stockage: Tenir les emballages hermétiquement fermés.
- · 7.3 Utilisation(s) finale(s) particulière(s) Pas d'autres informations importantes disponibles.

RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

- · Indications complémentaires pour l'agencement des installations techniques: Sans autre indication, voir point 7.
- · 8.1 Paramètres de contrôle
- · Composants présentant des valeurs-seuil à surveiller par poste de travail:

111-30-8 glutaral

VLEP Valeur momentanée: 0,8 mg/m³, 0,2 ppm Valeur à long terme: 0,4 mg/m³, 0,1 ppm

· Remarques supplémentaires:

Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.

- · 8.2 Contrôles de l'exposition
- · Equipement de protection individuel:
- · Mesures générales de protection et d'hygiène:

Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.

Retirer immédiatement les vêtements souillés ou humectés.

Se laver les mains avant les pauses et en fin de travail.

Conserver à part les vêtements de protection.

Eviter tout contact avec les yeux.

Eviter tout contact avec les yeux et avec la peau.

· Protection respiratoire:

En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou durable, utiliser un appareil de respiration indépendant de l'air ambiant.

· Protection des mains:



Gants de protection

Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.

À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.

Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.

· Matériau des gants

Le choix de gants appropriés dépend non seulement du matériau, mais aussi d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre. Puisque le produit représente une préparation composée de plusieurs substances, la résistance des matériaux des gants ne peut pas être calculée à l'avance et doit, alors, être contrôlée avant l'utilisation.

· Temps de pénétration du matériau des gants

Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.

(suite page 5)

(suite de la page 4)

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· Protection des yeux:



9.1 Informations sur les propriétés physiques et ch	imiques essentielles	
Indications générales		
Aspect:	71	
Forme: Couleur:	Liquide Incolore	
Couteur: Odeur:	Caractéristique	
Seuil olfactif:	Non déterminé.	
valeur du pH à 20 °C:	7,4	
Changement d'état		
Point de fusion/point de congélation:	Non déterminé.	
Point initial d'ébullition et intervalle d'ébullition:	: Non déterminé.	
Point d'éclair	Non applicable.	
Inflammabilité (solide, gaz):	Non applicable.	
Température de décomposition:	Non déterminé.	
Température d'auto-inflammabilité:	Le produit ne s'enflamme pas spontanément.	
Propriétés explosives:	Le produit n'est pas explosif.	
Limites d'explosion:		
Inférieure:	Non déterminé.	
Supérieure:	Non déterminé.	
Pression de vapeur à 20°C:	23 hPa	
Densité à 20 °C:	1,01 g/cm ³	
Densité relative	Non déterminé.	
Densité de vapeur:	Non déterminé.	
Taux d'évaporation:	Non déterminé.	
Solubilité dans/miscibilité avec		
l'eau:	Entièrement miscible	
Coefficient de partage: n-octanol/eau:	Non déterminé.	
Viscosité:		
Dynamique:	Non déterminé.	
Cinématique:	Non déterminé.	
Teneur en solvants:		
Eau:	94,9 %	
VOC (CE)	0,00 %	
Teneur en substances solides:	0,0 %	

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(suite de la page 5)

· 9.2 Autres informations

Pas d'autres informations importantes disponibles.

RUBRIQUE 10: Stabilité et réactivité

- · 10.1 Réactivité Pas d'autres informations importantes disponibles.
- · 10.2 Stabilité chimique
- · Décomposition thermique/conditions à éviter: Pas de décomposition en cas d'usage conforme.
- · 10.3 Possibilité de réactions dangereuses Aucune réaction dangereuse connue.
- · 10.4 Conditions à éviter Pas d'autres informations importantes disponibles.
- · 10.5 Matières incompatibles: Pas d'autres informations importantes disponibles.
- · 10.6 Produits de décomposition dangereux: Pas de produits de décomposition dangereux connus

RUBRIQUE 11: Informations toxicologiques

- · 11.1 Informations sur les effets toxicologiques
- · Toxicité aiguë

Toxique par inhalation.

· Valeurs LD/LC50 déterminantes pour la	classification:
---	-----------------

111-30-8 glutaral

Oral LD50 134 mg/kg (rat)
Dermique LD50 2.560 mg/kg (lapin)

- · Effet primaire d'irritation:
- · Corrosion cutanée/irritation cutanée

Provoque des brûlures de la peau et de graves lésions des yeux.

· Lésions oculaires graves/irritation oculaire

Provoque de graves lésions des yeux.

· Sensibilisation respiratoire ou cutanée

Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation. Peut provoquer une allergie cutanée.

- · Effets CMR (cancérogène, mutagène et toxique pour la reproduction)
- · Mutagénicité sur les cellules germinales

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

- · Cancérogénicité Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- · Toxicité pour la reproduction

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· Toxicité spécifique pour certains organes cibles - exposition unique

Peut irriter les voies respiratoires.

· Toxicité spécifique pour certains organes cibles - exposition répétée

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· Danger par aspiration Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

RUBRIQUE 12: Informations écologiques

- · 12.1 Toxicité
- · Toxicité aquatique: Pas d'autres informations importantes disponibles.
- · 12.2 Persistance et dégradabilité Pas d'autres informations importantes disponibles.
- · 12.3 Potentiel de bioaccumulation Pas d'autres informations importantes disponibles.
- · 12.4 Mobilité dans le sol Pas d'autres informations importantes disponibles.

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(suite de la page 6)

- · Effets écotoxiques:
- · Remarque:

Toxique chez les poissons.

Nocif pour les poissons.

- · Autres indications écologiques:
- · Indications générales:

Catégorie de pollution des eaux 3 (D) (Classification propre): très polluant

Ne pas laisser pénétrer dans la nappe phréatique, les eaux ou les canalisations, même pas en petite quantité.

Ne doit pas pénétrer à l'état non dilué ou non neutralisé dans les eaux usées ou le collecteur.

Danger pour l'eau potable dès fuite d'une quantité minime dans le sous-sol.

Dans les eaux, également toxique pour les poissons et le plancton.

Toxique pour les organismes aquatiques.

Nocif pour les organismes aquatiques.

- · 12.5 Résultats des évaluations PBT et VPVB
- · **PBT**: Non applicable.
- · vPvB: Non applicable.
- · 12.6 Autres effets néfastes Pas d'autres informations importantes disponibles.

RUBRIQUE 13: Considérations relatives à l'élimination

- · 13.1 Méthodes de traitement des déchets
- · Recommandation: Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.
- · Emballages non nettoyés:
- · Recommandation: Evacuation conformément aux prescriptions légales.
- · Produit de nettoyage recommandé: Eau, éventuellement avec des produits de nettoyage

RUBRIQUE 14: Informations relatives au transport - 14.5 Dangers pour l'environnement: - 14.6 Précautions particulières à prendre par l'utilisateur - Non applicable. - 14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC - Non applicable. - "Règlement type" de l'ONU: - néant

RUBRIQUE 15: Informations relatives à la réglementation

- · 15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement
- · Directive 2012/18/UE
- · Substances dangereuses désignées ANNEXE I Aucun des composants n'est compris.
- · Catégorie SEVESO H2 TOXICITÉ AIGUË
- Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas 50 t
- · Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut 200 t
- · RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII Conditions de limitation: 3
- · 15.2 Évaluation de la sécurité chimique: Une évaluation de la sécurité chimique n'a pas été réalisée.

Fiche de données de sécurité selon 1907/2006/CE, Article 31

Date d'impression : 03.04.2020 Révision: 03.04.2020

Nom du produit: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(suite de la page 7)

RUBRIQUE 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

· Phrases importantes

H301 Toxique en cas d'ingestion.

H314 Provoque des brûlures de la peau et de graves lésions des yeux.

H317 Peut provoquer une allergie cutanée.

H330 Mortel par inhalation.

H334 Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation.

H335 Peut irriter les voies respiratoires.

H400 Très toxique pour les organismes aquatiques.

H411 Toxique pour les organismes aquatiques, entraı̂ne des effets néfastes à long terme.

· Acronymes et abréviations:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Toxicité aiguë - voie orale - Catégorie 3

Acute Tox. 2: Toxicité aiguë - inhalation - Catégorie 2

Skin Corr. 1B: Corrosion cutanée/irritation cutanée – Catégorie 1B

Eye Dam. 1: Lésions oculaires graves/irritation oculaire - Catégorie 1

Resp. Sens. 1: Sensibilisation respiratoire – Catégorie 1 Skin Sens. 1: Sensibilisation cutanée – Catégorie 1

Skin Sens. 1A: Sensibilisation cutanée – Catégorie 1A

STOT SE 3: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 3

Aquatic Acute 1: Dangers pour le milieu aquatique-toxicité aiguë pour le milieu aquatique - Catégorie 1

Aquatic Chronic 2: Dangers pour le milieu aquatique- toxicité à long terme pour le milieu aquatique - Catégorie 2

Aquatic Chronic 3: Dangers pour le milieu aquatique- toxicité à long terme pour le milieu aquatique – Catégorie 3

FR

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Sicherheitsdatenblatt gemäß 1907/2006/EG, Artikel 31

Druckdatum: 03.04.2020 überarbeitet am: 03.04.2020

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

- · 1.1 Produktidentifikator
- · Handelsname: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Artikelnummer: 16539-30, 16539-40, 16539-35
- · 1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Keine weiteren relevanten Informationen verfügbar.

- · Verwendung des Stoffes / des Gemisches Laborchemikalien
- · 1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt
- · Hersteller/Lieferant:

Electron Microscopy Sciences 1560 Industry Road USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com www.emsdiasum.com

Science Services GmbH Unterhachinger Str. 75 81737 München Germany

Tel: +49(0)89 18 93 668-0 safety@scienceservices.de

Deutschland: +49 (0)89 19240, 24h Giftnotruf Munchen, www toxinfo.org

Osterreich: +43 1406 43 43, Gesundheit Osterreich GmbH, 24 h

- · Auskunftgebender Bereich: Product safety department
- · 1.4 Notrufnummer:

ChemTrec 1-800-424-9300 Contract <u>CCN7661</u>

1-703-527-3887

ABSCHNITT 2: Mögliche Gefahren

- · 2.1 Einstufung des Stoffs oder Gemischs
- · Einstufung gemäß Verordnung (EG) Nr. 1272/2008



GHS06 Totenkopf mit gekreuzten Knochen

Acute Tox. 3 H331 Giftig bei Einatmen.



GHS08 Gesundheitsgefahr

Resp. Sens. 1 H334 Kann bei Einatmen Allergie, asthmaartige Symptome oder Atembeschwerden verursachen.



GHS05 Ätzwirkung

Skin Corr. 1B H314 Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

Eye Dam. 1 H318 Verursacht schwere Augenschäden.

(Fortsetzung auf Seite 2)

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Sicherheitsdatenblatt gemäß 1907/2006/EG, Artikel 31

Druckdatum: 03.04.2020 überarbeitet am: 03.04.2020

Handelsname: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Fortsetzung von Seite 1)



Skin Sens. 1 H317 Kann allergische Hautreaktionen verursachen.

STOT SE 3 H335 Kann die Atemwege reizen.

Aquatic Chronic 3 H412 Schädlich für Wasserorganismen, mit langfristiger Wirkung.

· 2.2 Kennzeichnungselemente

· Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008

Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.

· Gefahrenpiktogramme







GHS05

GHS06 GHS08

- · Signalwort Gefahr
- · Gefahrbestimmende Komponenten zur Etikettierung:

Glutaral

· Gefahrenhinweise

H331 Giftig bei Einatmen.

H314 Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

H334 Kann bei Einatmen Allergie, asthmaartige Symptome oder Atembeschwerden verursachen.

H317 Kann allergische Hautreaktionen verursachen.

H335 Kann die Atemwege reizen.

H412 Schädlich für Wasserorganismen, mit langfristiger Wirkung.

· Sicherheitshinweise

P303+P361+P353 BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen [oder duschen].

P305+P351+P338 BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen.

Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.

P310 Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.

P321 Besondere Behandlung (siehe auf diesem Kennzeichnungsetikett).
P362+P364 Kontaminierte Kleidung ausziehen und vor erneutem Tragen waschen.

P405 Unter Verschluss aufbewahren.

P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen/

internationalen Vorschriften.

· 2.3 Sonstige Gefahren

· Ergebnisse der PBT- und vPvB-Beurteilung

· **PBT**: Nicht anwendbar.

· vPvB: Nicht anwendbar.

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

· 3.2 Chemische Charakterisierung: Gemische

· Beschreibung: Gemisch aus nachfolgend angeführten Stoffen mit ungefährlichen Beimengungen.

(Fortsetzung auf Seite 3)

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Sicherheitsdatenblatt gemäß 1907/2006/EG, Artikel 31

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Handelsname: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Fortsetzung von Seite 2)

>2,5-*≤*10%

· Gefährliche Inhaltsstoffe:

CAS: 111-30-8 EINECS: 203-856-5

Glutaral

🔗 Acute Tox. 3, H301; Acute Tox. 2, H330; 🗞 Resp. Sens. 1, H334; 🕎 Skin

Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 2, H411;

Skin Sens. 1A, H317; STOT SE 3, H335

· Zusätzliche Hinweise: Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- · 4.1 Beschreibung der Erste-Hilfe-Maßnahmen
- · Allgemeine Hinweise:

Mit Produkt verunreinigte Kleidungsstücke unverzüglich entfernen.

Vergiftungssymptome können erst nach vielen Stunden auftreten, deshalb ärztliche Überwachung mindestens 48 Stunden nach einem Unfall.

Atemschutz erst nach Entfernen verunreinigter Kleidungsstücke abnehmen.

Bei unregelmäßiger Atmung oder Atemstillstand künstliche Beatmung.

· Nach Einatmen:

Frischluft- oder Sauerstoffzufuhr; ärztliche Hilfe in Anspruch nehmen.

Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.

- · Nach Hautkontakt: Sofort mit Wasser und Seife abwaschen und gut nachspülen.
- · Nach Augenkontakt:

Augen bei geöffnetem Lidspalt mehrere Minuten unter fließendem Wasser abspülen und Arzt konsultieren.

· Nach Verschlucken:

Sofort Arzt aufsuchen.

Reichlich Wasser nachtrinken und Frischluftzufuhr. Unverzüglich Arzt hinzuziehen.

· 4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Keine weiteren relevanten Informationen verfügbar.

· 4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- · 5.1 Löschmittel
- · Geeignete Löschmittel: Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- · 5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren

Keine weiteren relevanten Informationen verfügbar.

- · 5.3 Hinweise für die Brandbekämpfung
- · Besondere Schutzausrüstung: Atemschutzgerät anlegen.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- \cdot 6.1 Personenbezogene Vorsichtsmaetanahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren Schutzausrüstung tragen. Ungeschützte Personen fernhalten.
- · 6.2 Umweltschutzmaßnahmen:

Bei Eindringen in Gewässer oder Kanalisation zuständige Behörden benachrichtigen.

Mit viel Wasser verdünnen.

Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.

· 6.3 Methoden und Material für Rückhaltung und Reinigung:

Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen. Neutralisationsmittel anwenden.

Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.

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Handelsname: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Fortsetzung von Seite 3)

Für ausreichende Lüftung sorgen.

· 6.4 Verweis auf andere Abschnitte

Informationen zur sicheren Handhabung siehe Abschnitt 7.

Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.

Informationen zur Entsorgung siehe Abschnitt 13.

ABSCHNITT 7: Handhabung und Lagerung

· 7.1 Schutzmaßnahmen zur sicheren Handhabung

Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.

Behälter mit Vorsicht öffnen und handhaben.

Aerosolbildung vermeiden.

- · Hinweise zum Brand- und Explosionsschutz: Atemschutzgeräte bereithalten.
- · 7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten
- · Lagerung:
- · Anforderung an Lagerräume und Behälter: Keine besonderen Anforderungen.
- · Zusammenlagerungshinweise: Nicht erforderlich.
- · Weitere Angaben zu den Lagerbedingungen: Behälter dicht geschlossen halten.
- · Lagerklasse:
- · Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV): -
- · 7.3 Spezifische Endanwendungen Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- · Zusätzliche Hinweise zur Gestaltung technischer Anlagen: Keine weiteren Angaben, siehe Abschnitt 7.
- · 8.1 Zu überwachende Parameter
- · Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:

111-30-8 Glutaral

AGW Langzeitwert: 0,2 mg/m³, 0,05 ml/m³

2(I); AGS, Sah, Y

- · Zusätzliche Hinweise: Als Grundlage dienten die bei der Erstellung gültigen Listen.
- · 8.2 Begrenzung und Überwachung der Exposition
- · Persönliche Schutzausrüstung:
- · Allgemeine Schutz- und Hygienemaßnahmen:

Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.

Beschmutzte, getränkte Kleidung sofort ausziehen.

Vor den Pausen und bei Arbeitsende Hände waschen.

Getrennte Aufbewahrung der Schutzkleidung.

Berührung mit den Augen vermeiden.

Berührung mit den Augen und der Haut vermeiden.

· Atemschutz:

Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden.

· Handschutz:



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(Fortsetzung von Seite 4)

Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.

· Handschuhmaterial

Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich. Da das Produkt eine Zubereitung aus mehreren Stoffen darstellt, ist die Beständigkeit von Handschuhmaterialen nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden.

· Durchdringungszeit des Handschuhmaterials

Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

· Augenschutz:



Dichtschließende Schutzbrille

ABSCHNITT 9: Physikalische und chemische Eigenschaften

	hysikalischen und chemischen Eigenschaften
· Allgemeine Angaben	
· Aussehen: Form:	Flüssigkait
r orm: Farbe:	Flüssigkeit Farblos
· Geruch:	Charakteristisch
· Geruchsschwelle:	Nicht bestimmt.
· pH-Wert bei 20 °C:	7,4
· Zustandsänderung	
Schmelzpunkt/Gefrierpunkt:	Nicht bestimmt.
Siedebeginn und Siedebereich:	Nicht bestimmt.
· Flammpunkt:	Nicht anwendbar.
· Entzündbarkeit (fest, gasförmig):	Nicht anwendbar.
· Zersetzungstemperatur:	Nicht bestimmt.
· Selbstentzündungstemperatur:	Das Produkt ist nicht selbstentzündlich.
· Explosive Eigenschaften:	Das Produkt ist nicht explosionsgefährlich.
· Explosionsgrenzen:	
Untere:	Nicht bestimmt.
Obere:	Nicht bestimmt.
· Dampfdruck bei 20°C:	23 hPa
· Dichte bei 20°C:	1,01 g/cm ³
· Relative Dichte	Nicht bestimmt.
· Dampfdichte	Nicht bestimmt.
· Verdampfungsgeschwindigkeit	Nicht bestimmt.
· Löslichkeit in / Mischbarkeit mit	
Wasser:	Vollständig mischbar.

(Fortsetzung auf Seite 6)

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Druckdatum: 03.04.2020 überarbeitet am: 03.04.2020

Handelsname: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

	(Fortsetzung von Seit
Verteilungskoeffizient: n-Octano	pl/Wasser: Nicht bestimmt.
Viskosität:	
Dynamisch:	Nicht bestimmt.
Kinematisch:	Nicht bestimmt.
Lösemittelgehalt:	
Wasser:	94,9 %
VOC (EU)	0,00 %
Festkörpergehalt:	0,0 %
9.2 Sonstige Angaben	Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 10: Stabilität und Reaktivität

- · 10.1 Reaktivität Keine weiteren relevanten Informationen verfügbar.
- · 10.2 Chemische Stabilität
- · Thermische Zersetzung / zu vermeidende Bedingungen:

Keine Zersetzung bei bestimmungsgemäßer Verwendung.

- · 10.3 Möglichkeit gefährlicher Reaktionen Keine gefährlichen Reaktionen bekannt.
- · 10.4 Zu vermeidende Bedingungen Keine weiteren relevanten Informationen verfügbar.
- · 10.5 Unverträgliche Materialien: Keine weiteren relevanten Informationen verfügbar.
- · 10.6 Gefährliche Zersetzungsprodukte: Keine gefährlichen Zersetzungsprodukte bekannt.

ABSCHNITT 11: Toxikologische Angaben

- · 11.1 Angaben zu toxikologischen Wirkungen
- · Akute Toxizität

Giftig bei Einatmen.

· Einstufungsrelevante LD/LC50-Werte:		
111-30-8 Glutaral		
Oral	LD50	134 mg/kg (rat)
Dermal	<i>LD50</i>	2.560 mg/kg (rabbit)

- · Primäre Reizwirkung:
- · Ätz-/Reizwirkung auf die Haut

Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

· Schwere Augenschädigung/-reizung

Verursacht schwere Augenschäden.

· Sensibilisierung der Atemwege/Haut

Kann bei Einatmen Allergie, asthmaartige Symptome oder Atembeschwerden verursachen.

Kann allergische Hautreaktionen verursachen.

- · CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)
- · Keimzell-Mutagenität Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- · Karzinogenität Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- · Reproduktionstoxizität Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- · Spezifische Zielorgan-Toxizität bei einmaliger Exposition Kann die Atemwege reizen.
- · Spezifische Zielorgan-Toxizität bei wiederholter Exposition

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

(Fortsetzung auf Seite 7)

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Handelsname: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

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· Aspirationsgefahr Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

ABSCHNITT 12: Umweltbezogene Angaben

- · 12.1 Toxizität
- · Aquatische Toxizität: Keine weiteren relevanten Informationen verfügbar.
- · 12.2 Persistenz und Abbaubarkeit Keine weiteren relevanten Informationen verfügbar.
- · 12.3 Bioakkumulationspotenzial Keine weiteren relevanten Informationen verfügbar.
- · 12.4 Mobilität im Boden Keine weiteren relevanten Informationen verfügbar.
- · Ökotoxische Wirkungen:
- · Bemerkung:

Giftig für Fische.

Schädlich für Fische.

- · Weitere ökologische Hinweise:
- · Allgemeine Hinweise:

Wassergefährdungsklasse 3 (Selbsteinstufung): stark wassergefährdend

Nicht in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen, auch nicht in kleinen Mengen.

Darf nicht unverdünnt bzw. unneutralisiert ins Abwasser bzw. in den Vorfluter gelangen.

Trinkwassergefährdung bereits beim Auslaufen geringster Mengen in den Untergrund.

In Gewässern auch giftig für Fische und Plankton.

giftig für Wasserorganismen

schädlich für Wasserorganismen

- · 12.5 Ergebnisse der PBT- und vPvB-Beurteilung
- · PBT: Nicht anwendbar.
- · vPvB: Nicht anwendbar.
- · 12.6 Andere schädliche Wirkungen Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 13: Hinweise zur Entsorgung

- · 13.1 Verfahren der Abfallbehandlung
- · Empfehlung: Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- · Ungereinigte Verpackungen:
- · Empfehlung: Entsorgung gemäß den behördlichen Vorschriften.
- · Empfohlenes Reinigungsmittel: Wasser, gegebenenfalls mit Zusatz von Reinigungsmitteln.

ARS	CHNIT	T 14.	Angai	hon zum	Transport
	19///	1 17./	111411	ven zum	

· 14.5 Umweltgefahren: Nicht anwendbar.

· 14.6 Besondere Vorsichtsmaßnahmen für den

Verwender Nicht anwendbar.

· 14.7 Massengutbeförderung gemäß Anhang II des

MARPOL-Übereinkommens und gemäß IBC-Code Nicht anwendbar.

· UN ''Model Regulation'': entfällt

DE

Sicherheitsdatenblatt gemäß 1907/2006/EG, Artikel 31

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Handelsname: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Fortsetzung von Seite 7)

ABSCHNITT 15: Rechtsvorschriften

- · 15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch
- · Richtlinie 2012/18/EU
- · Namentlich aufgeführte gefährliche Stoffe ANHANG I Keiner der Inhaltsstoffe ist enthalten.
- · Seveso-Kategorie H2 AKUT TOXISCH
- · Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 50 t
- · Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 200 t
- · VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII Beschränkungsbedingungen: 3
- · Nationale Vorschriften:
- · Technische Anleitung Luft:

Klasse	Anteil in %
Wasser	94,9
I	5,0

- · Wassergefährdungsklasse: WGK 3 (Selbsteinstufung): stark wassergefährdend.
- · Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen

Das Produkt unterliegt der Anlage 2 der Chemikalienverbotsverordnung (ChemVerbotsV) - Anforderungen in Bezug auf die Abgabe

· 15.2 Stoffsicherheitsbeurteilung: Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

· Relevante Sätze

H301 Giftig bei Verschlucken.

H314 Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

H317 Kann allergische Hautreaktionen verursachen.

H330 Lebensgefahr bei Einatmen.

H334 Kann bei Einatmen Allergie, asthmaartige Symptome oder Atembeschwerden verursachen.

H335 Kann die Atemwege reizen.

H400 Sehr giftig für Wasserorganismen.

H411 Giftig für Wasserorganismen, mit langfristiger Wirkung.

· Abkürzungen und Akronyme:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Akute Toxizität - oral – Kategorie 3

Acute Tox. 2: Akute Toxizität - inhalativ – Kategorie 2 Skin Corr. 1B: Hautreizende/-ätzende Wirkung – Kategorie 1B

Eng Dam 1. Solvens Augustalia di ama / Augustairung - Vatagoria

Eye Dam. 1: Schwere Augenschädigung/Augenreizung – Kategorie 1

Resp. Sens. 1: Sensibilisierung der Atemwege – Kategorie 1

Skin Sens. 1: Sensibilisierung der Haut – Kategorie 1

Skin Sens. 1A: Sensibilisierung der Haut – Kategorie 1A

STOT SE 3: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 3

Aquatic Acute 1: Gewässergefährdend - akut gewässergefährdend - Kategorie 1

(Fortsetzung auf Seite 9)

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Sicherheitsdatenblatt gemäß 1907/2006/EG, Artikel 31

Druckdatum: 03.04.2020 überarbeitet am: 03.04.2020

Handelsname: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Fortsetzung von Seite 8)

Aquatic Chronic 2: Gewässergefährdend - langfristig gewässergefährdend – Kategorie 2 Aquatic Chronic 3: Gewässergefährdend - langfristig gewässergefährdend – Kategorie 3

Pagina: 1/8

Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 03.04.2020 Revisione: 03.04.2020

SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

- · 1.1 Identificatore del prodotto
- · Denominazione commerciale: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Articolo numero: 16539-30, 16539-40, 16539-35
- · 1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati Non sono disponibili altre informazioni.
- · Utilizzazione della Sostanza / del Preparato Prodotti chimici per laboratorio
- · 1.3 Informazioni sul fornitore della scheda di dati di sicurezza
- · Produttore/fornitore:

Electron Microscopy Sciences 1560 Industry Road USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Societa Italiana Chimici Via Rio Nell Ellba 140 00138 Rome, Italy Tel: 39 06 8800211 Fax: 39 30 06 8815313 Web: www.sichim.com

- · Informazioni fornite da: Product safety department
- · 1.4 Numero telefonico di emergenza:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

SEZIONE 2: Identificazione dei pericoli

- · 2.1 Classificazione della sostanza o della miscela
- · Classificazione secondo il regolamento (CE) n. 1272/2008



GHS06 teschio e tibie incrociate

Acute Tox. 3 H331 Tossico se inalato.



GHS08 pericolo per la salute

Resp. Sens. 1 H334 Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.



GHS05 corrosione

Skin Corr. 1B H314 Provoca gravi ustioni cutanee e gravi lesioni oculari.

Eye Dam. 1 H318 Provoca gravi lesioni oculari.



Skin Sens. 1 H317 Può provocare una reazione allergica cutanea.

(continua a pagina 2)

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Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 03.04.2020 Revisione: 03.04.2020

Denominazione commerciale: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Segue da pagina 1)

STOT SE 3 H335 Può irritare le vie respiratorie.

Aquatic Chronic 3 H412 Nocivo per gli organismi acquatici con effetti di lunga durata.

- · 2.2 Elementi dell'etichetta
- · Etichettatura secondo il regolamento (CE) n. 1272/2008

Il prodotto è classificato ed etichettato conformemente al regolamento CLP.

· Pittogrammi di pericolo







GHS05

GHS06 GHS08

- · Avvertenza Pericolo
- · Componenti pericolosi che ne determinano l'etichettatura: glutarale
- · Indicazioni di pericolo

H331 Tossico se inalato.

H314 Provoca gravi ustioni cutanee e gravi lesioni oculari.

H334 Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.

H317 Può provocare una reazione allergica cutanea.

H335 Può irritare le vie respiratorie.

H412 Nocivo per gli organismi acquatici con effetti di lunga durata.

Consigli di prudenza

P303+P361+P353 IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso

immediatamente tutti gli indumenti contaminati. Sciacquare la pelle [o fare una doccia].

P305+P351+P338 IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti.

Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare.

P310 Contattare immediatamente un CENTRO ANTIVELENI/un medico.

Trattamento specifico (vedere su questa etichetta). P321

P362+P364 Togliere tutti gli indumenti contaminati e lavarli prima di indossarli nuovamente.

P405 Conservare sotto chiave.

P501 Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali /

internazionali.

- · 2.3 Altri pericoli
- · Risultati della valutazione PBT e vPvB
- · PBT: Non applicabile.
- · vPvB: Non applicabile.

SEZIONE 3: Composizione/informazioni sugli ingredienti

- · 3.2 Caratteristiche chimiche: Miscele
- · Descrizione: Miscela delle seguenti sostanze con additivi non pericolosi.

	· Sostanze pericolose:		
ſ		0	>2,5-≤10%
	EINECS: 203-856-5	Acute Tox. 3, H301; Acute Tox. 2, H330; & Resp. Sens. 1, H334; < Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Sens. 1A, H317; STOT SE 3, H335	

· Ulteriori indicazioni: Il testo dell'avvertenza dei pericoli citati può essere appreso dal capitolo 16

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Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 03.04.2020 Revisione: 03.04.2020

Denominazione commerciale: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Segue da pagina 2)

SEZIONE 4: Misure di primo soccorso

- · 4.1 Descrizione delle misure di primo soccorso
- · Indicazioni generali:

Allontanare immediatamente gli abiti contaminati dal prodotto.

I sintomi di avvelenamento possono comparire dopo molte ore, per tale motivo è necessaria la sorveglianza di un medico nelle 48 ore successive all'incidente.

Levarsi la maschera protettiva solamente dopo aver tolto gli abiti contaminati.

In caso di respirazione irregolare o di blocco respiratorio praticare la respirazione artificiale.

· Inalazione:

Portare il soggetto in zona ben areata o somministrare ossigeno; chiedere l'intervento di un medico.

Se il soggetto è svenuto provvedere a tenerlo durante il trasporto in posizione stabile su un fianco.

- · Contatto con la pelle: Lavare immediatamente con acqua e sapone sciacquando accuratamente.
- · Contatto con gli occhi:

Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte e consultare il medico.

· Ingestione:

Chiamare subito il medico.

Bere abbondante acqua e sostare in zona ben areata. Richiedere immediatamente l'intervento del medico.

- · 4.2 Principali sintomi ed effetti, sia acuti che ritardati Non sono disponibili altre informazioni.
- 4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali Non sono disponibili altre informazioni.

SEZIONE 5: Misure antincendio

- · 5.1 Mezzi di estinzione
- · Mezzi di estinzione idonei: Adottare provvedimenti antiincendio nei dintorni della zona colpita.
- 5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela Non sono disponibili altre informazioni.
- · 5.3 Raccomandazioni per gli addetti all'estinzione degli incendi
- · Mezzi protettivi specifici: Indossare il respiratore.

SEZIONE 6: Misure in caso di rilascio accidentale

- 6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza
- Indossare equipaggiamento protettivo. Allontanare le persone non equipaggiate.
- · 6.2 Precauzioni ambientali:

In caso di infiltrazione nei corpi d'acqua o nelle fognature avvertire le autorità competenti.

Diluire abbondantemente con acqua.

Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.

· 6.3 Metodi e materiali per il contenimento e per la bonifica:

Raccogliere il liquido con materiale assorbente (sabbia, tripoli, legante di acidi, legante universale, segatura). Utilizzare mezzi di neutralizzazione.

Smaltimento del materiale contaminato conformemente al punto 13.

Provvedere ad una sufficiente areazione.

· 6.4 Riferimento ad altre sezioni

Per informazioni relative ad un manipolazione sicura, vedere capitolo 7.

Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.

Per informazioni relative allo smaltimento vedere Capitolo 13.

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Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 03.04.2020 Revisione: 03.04.2020

Denominazione commerciale: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Segue da pagina 3)

SEZIONE 7: Manipolazione e immagazzinamento

· 7.1 Precauzioni per la manipolazione sicura

Accurata ventilazione/aspirazione nei luoghi di lavoro.

Aprire e manipolare i recipienti con cautela.

Evitare la formazione di aerosol.

- · Indicazioni in caso di incendio ed esplosione: Tener pronto il respiratore.
- · 7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità
- · Stoccaggio:
- · Requisiti dei magazzini e dei recipienti: Non sono richiesti requisiti particolari.
- · Indicazioni sullo stoccaggio misto: Non necessario.
- · Ulteriori indicazioni relative alle condizioni di immagazzinamento: Mantenere i recipienti ermeticamente chiusi.
- · 7.3 Usi finali particolari Non sono disponibili altre informazioni.

SEZIONE 8: Controllo dell'esposizione/protezione individuale

- · Ulteriori indicazioni sulla struttura di impianti tecnici: Nessun dato ulteriore, vedere punto 7.
- · 8.1 Parametri di controllo
- · Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:

111-30-8 glutarale

TWA Limite Ceiling: 0,2 mg/m³, 0,05 ppm sen, A4

- · Ulteriori indicazioni: Le liste valide alla data di compilazione sono state usate come base.
- · 8.2 Controlli dell'esposizione
- · Mezzi protettivi individuali:
- · Norme generali protettive e di igiene del lavoro:

Tenere lontano da cibo, bevande e foraggi.

Togliere immediatamente gli abiti contaminati.

Lavarsi le mani prima dell'intervallo o a lavoro terminato.

Custodire separatamente l'equipaggiamento protettivo.

Evitare il contatto con gli occhi.

Evitare il contatto con gli occhi e la pelle.

· Maschera protettiva:

Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.

· Guanti protettivi:



Guanti protettivi

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.

A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.

Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.

· Materiale dei guanti

La scelta dei guanti adatti non dipende soltanto dal materiale bensí anche da altre caratteristiche di qualità variabili da un produttore a un altro. Poiché il prodotto rappresenta una formulazione di più sostanze, la stabilità dei materiali dei guanti non è calcolabile in anticipo e deve essere testata prima dell'impiego

(continua a pagina 5)

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Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 03.04.2020 Revisione: 03.04.2020

Denominazione commerciale: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Segue da pagina 4)

· Tempo di permeazione del materiale dei guanti Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.

· Occhiali protettivi:



SEZIONE 9: Proprietà fisiche e chimiche			
9.1 Informazioni sulle proprietà fisiche e chin	niche fondamentali		
· Indicazioni generali	·		
· Aspetto:			
Forma:	Liquido		
Colore:	Incolore		
· Odore:	Caratteristico		
· Soglia olfattiva:	Non definito.		
· valori di pH a 20°C:	7,4		
· Cambiamento di stato			
Punto di fusione/punto di congelamento:	Non definito.		
Punto di ebollizione iniziale e intervallo di			
ebollizione:	Non definito.		
· Punto di infiammabilità:	Non applicabile.		
· Infiammabilità (solidi, gas):	Non applicabile.		
Temperatura di decomposizione:	Non definito.		
Temperatura di autoaccensione:	Prodotto non autoinfiammabile.		
Proprietà esplosive:	Prodotto non esplosivo.		
Limiti di infiammabilità:			
Inferiore:	Non definito.		
Superiore:	Non definito.		
Tensione di vapore a 20 °C:	23 hPa		
Densità a 20 °C:	1,01 g/cm ³		
Densità relativa	Non definito.		
Densità di vapore:	Non definito.		
Velocità di evaporazione	Non definito.		
Solubilità in/Miscibilità con			
acqua:	Completamente miscibile.		
· Coefficiente di ripartizione: n-ottanolo/acqua	: Non definito.		
Viscosità:			
Dinamica:	Non definito.		
Cinematica:	Non definito.		
· Tenore del solvente:			
Acqua:	94,9 %		
VOC (CE)	0,00 %		

(continua a pagina 6)

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Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 03.04.2020 Revisione: 03.04.2020

Denominazione commerciale: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Segue da pagina 5)

Contenuto solido: 0,0 %

· 9.2 Altre informazioni Non sono disponibili altre informazioni.

SEZIONE 10: Stabilità e reattività

- · 10.1 Reattività Non sono disponibili altre informazioni.
- · 10.2 Stabilità chimica
- · Decomposizione termica/ condizioni da evitare: Il prodotto non si decompone se utilizzato secondo le norme.
- · 10.3 Possibilità di reazioni pericolose Non sono note reazioni pericolose.
- · 10.4 Condizioni da evitare Non sono disponibili altre informazioni.
- · 10.5 Materiali incompatibili: Non sono disponibili altre informazioni.
- · 10.6 Prodotti di decomposizione pericolosi: Non sono noti prodotti di decomposizione pericolosi.

SEZIONE 11: Informazioni tossicologiche

- · 11.1 Informazioni sugli effetti tossicologici
- · Tossicità acuta

Tossico se inalato.

· Valori LD/LC50 rilevanti per la classificazione:				
111-30-8 glutarale				
Orale	LD50	134 mg/kg (rat)		
Cutaneo	LD50	2.560 mg/kg (rabbit)		

- Irritabilità primaria:
- · Corrosione/irritazione cutanea

Provoca gravi ustioni cutanee e gravi lesioni oculari.

· Lesioni oculari gravi/irritazioni oculari gravi

Provoca gravi lesioni oculari.

· Sensibilizzazione respiratoria o cutanea

Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.

Può provocare una reazione allergica cutanea.

- · Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)
- · Mutagenicità delle cellule germinali

Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

- · Cancerogenicità Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- · Tossicità per la riproduzione Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- \cdot Tossicità specifica per organi bersaglio (STOT) esposizione singola

Può irritare le vie respiratorie.

· Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta

Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

· Pericolo in caso di aspirazione Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

SEZIONE 12: Informazioni ecologiche

- · 12.1 Tossicità
- · Tossicità acquatica: Non sono disponibili altre informazioni.
- · 12.2 Persistenza e degradabilità Non sono disponibili altre informazioni.
- · 12.3 Potenziale di bioaccumulo Non sono disponibili altre informazioni.
- · 12.4 Mobilità nel suolo Non sono disponibili altre informazioni.

(continua a pagina 7)

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Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

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Denominazione commerciale: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Segue da pagina 6)

- · Effetti tossici per l'ambiente:
- · Osservazioni:

Tossico per i pesci.

Nocivo per i pesci.

- · Ulteriori indicazioni in materia ambientale:
- · Ulteriori indicazioni:

Pericolosità per le acque classe 3 (D) (Autoclassificazione): molto pericoloso

Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature, anche in piccole dosi.

Non immettere il prodotto non diluito o non neutralizzato nelle acque di scarico e nei canali di raccolta.

Pericolo per le acque potabili anche in caso di perdite nel sottosuolo di quantità minime di prodotto.

Tossico per pesci e plancton.

tossico per gli organismi acquatici

nocivo per gli organismi acquatici

- · 12.5 Risultati della valutazione PBT e vPvB
- · PBT: Non applicabile.
- · vPvB: Non applicabile.
- · 12.6 Altri effetti avversi Non sono disponibili altre informazioni.

SEZIONE 13: Considerazioni sullo smaltimento

- · 13.1 Metodi di trattamento dei rifiuti
- · Consigli: Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
- · Imballaggi non puliti:
- · Consigli: Smaltimento in conformità con le disposizioni amministrative.
- · Detergente consigliato: Acqua eventualmente con l'aggiunta di detersivi.

SEZIONE 14: Informazioni sul trasporto

· 14.5 Pericoli per l'ambiente:	Non applicabile.	
· 14.6 Precauzioni speciali per gli utilizzatori	Non applicabile.	
· 14.7 Trasporto di rinfuse secondo l'allegato II di MARPOL ed il codice IBC Non applicabile.		
· UN ''Model Regulation'':	non applicabile	

SEZIONE 15: Informazioni sulla regolamentazione

- · 15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela
- · Direttiva 2012/18/UE
- · Sostanze pericolose specificate ALLEGATO I Nessuno dei componenti è contenuto.
- · Categoria Seveso H2 TOSSICITÀ ACUTA
- · Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore 50 t
- · Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore 200 t
- · REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII Restrizioni: 3
- · 15.2 Valutazione della sicurezza chimica: Una valutazione della sicurezza chimica non è stata effettuata.

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Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

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Denominazione commerciale: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Segue da pagina 7)

SEZIONE 16: Altre informazioni

I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.

· Frasi rilevanti

H301 Tossico se ingerito.

H314 Provoca gravi ustioni cutanee e gravi lesioni oculari.

H317 Può provocare una reazione allergica cutanea.

H330 Letale se inalato.

H334 Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.

H335 Può irritare le vie respiratorie.

H400 Molto tossico per gli organismi acquatici.

H411 Tossico per gli organismi acquatici con effetti di lunga durata.

· Abbreviazioni e acronimi:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Tossicità acuta per via orale – Categoria 3

Acute Tox. 2: Tossicità acuta per inalazione – Categoria 2

Skin Corr. 1B: Corrosione/irritazione della pelle – Categoria 1B

Eye Dam. 1: Gravi lesioni oculari/irritazione oculare – Categoria 1

Resp. Sens. 1: Sensibilizzazione delle vie respiratorie – Categoria 1

Skin Sens. 1: Sensibilizzazione della pelle - Categoria 1

Skin Sens. 1A: Sensibilizzazione della pelle – Categoria 1A

STOT SE 3: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 3

Aquatic Acute 1: Pericoloso per l'ambiente acquatico - pericolo acuto per l'ambiente acquatico - Categoria 1

Aquatic Chronic 2: Pericoloso per l'ambiente acquatico - pericolo a lungo termine per l'ambiente acquatico - Categoria 2

Aquatic Chronic 3: Pericoloso per l'ambiente acquatico - pericolo a lungo termine per l'ambiente acquatico - Categoria 3

물질안전보건자료 GHSM매따라라따

인쇄일자: 2020.04.03 개정: 2020.04.03

1 화학제품과 회사에 관한 정보

제품제**품제품**자

- · 제품명: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · 상품번호: 16539-30, 16539-40, 16539-35

해당해당被器질이나 혼합器蛇관련

환경 원명 한 분이 사용금지용도 추가적인 정보가 존재하지 않습니다.

- ·제품의권고程표와 사용생활제한제한</mark>험 실화 학품
- · 안전데이터표(Safety Data Sheet)내 공급업체 관련(함께 정보
- ·제조자/수입자/유통업域 정보정보

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- · 추가적만 정토화話 훼둥 가능 duct safety department
- · 비상연락 전화번호:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

2 유해성·위험성

· 순물장 또는 호함 물약 분류분류



▶ 두개골과 대퇴골

급성 독성 - 흡입 – 구분 3 H331 흡입하면 유독함



건강에 위험

호흡기 과민성 – 구분 1 H334 흡입 시 알레르기성 반응, 천식 또는 호흡 곤란 등을 일으킬 수 있음



부스

피부 부식성/피부 자극성 – 구분 1 H314 피부에 심한 화상과 눈에 손상을 일으킴

심한 눈 손상성/눈 자극성 – 구분 1 H318 눈에 심한 손상을 일으킴

(2 쪽에계속)

물질안전보건자료 GH®예따라라따

인쇄일자: 2020.04.03 개정: 2020.04.03

제품명: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(1 쪽부터계속)



피부 과민성 – 구분 1

H317 알레르기성 피부 반응을 일으킬 수 있음

특정표적장기 독성 - 1회 노출 - 구분 3 H335 호흡 자극성을 일으킬 수 있음

수생환경 유해성 – 만성3

H412 장기적 영향에 의해 수생생물에 유해함

- · 라벨**포**가요소요소
- 소요설소단설소열매()

본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

· 그림문자







GHS08

GHS05 GHS06

- . **신호어** 위험
- · 상표상에명확히위험성이표시된성분:

글루타르알데히드

유해**유혜(ऋ國) 완참** 문구

흡입하면 유독함

피부에 심한 화상과 눈에 손상을 일으킴

흡입 시 알레르기성 반응, 천식 또는 호흡 곤란 등을 일으킬 수 있음

알레르기성 피부 반응을 일으킬 수 있음

호흡 자극성을 일으킬 수 있음

장기적 영향에 의해 수생생물에 유해함

· 예방**조차** 문구문구

피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하시오. 피부를 물로 씻으시오/샤워하시오

눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하시오. 계속 씻으시오. 즉시 독성물질센터/병원 연락 필요.

(라벨 참조) 처치를 하시오.

오염된 의복은 벗고 다시 사용 전 세척하시오.

밀봉하여 저장하시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하시오.

기타기타 深해성

- · PBT(잔류성, 생물농축성 물전물진물진 만VPvB(고 잔류성, 고 생물농축전 물진 문편과표과 결과
- · PBT(**잔류성, 생물농축성/呈정물/질**星**型**당사항 없음.
- · vPvB(고 잔류성, 고 생물농축정 물질물祻당사항 없음.

3 구성성분의 명칭 및 함유량

ㆍ화 학 적 특 성: 혼합물

설명설명설명해한 첨 가 물 이 함유된 아래에 열 거 된 물 질 로 만 들 어 진 혼 합 물.

· **위2함** 요소요소

111-30-8 글루타르알데히드

>2.5-≤10%

○ 급성 독성 - 경구 – 구분 3, H301; 급성 독성 - 흡입 – 구분 2, H330;
 ○ 호흡기 과민성 – 구분 1, H334;
 ○ 피부 부식성/피부 자극성 – 구분 1, H314;
 ○ 수생환경 유해성 – 만성2, H411;
 ○ 피부 과민성 – 구분 1, H317;
 등 정표적장기 독성 - 1회 노출 – 구분 3, H335

물질안전보건자료 GHS에따라라따

인쇄일자: 2020,04.03 개정: 2020,04.03

제품명: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(2 쪽부터계속)

4 응급조치 요령

- · **응급조치의랑** 내용내용
- · 일 변절 정보정보

이 제품에 의해 오염 된 의상은 즉 시 제 거 한 다.

중 독 증 상 은 몇 시 간이 지난 뒤에 발생할 수 있다. 따라서 사고가 발 생 한 후에 적 어 도 48 시 간동안은 의료진의 관찰을 받 아 야 한 다.

반드시 오염 된 의상을 완전히 제거한 후 에 호흡 보호 기를 떼 어낸다.

불 규 칙 적 인 호 흡 이 나 호 흡 정 지 상 태 에 서는 인 공 호 흡을 실시한다.

· 흡입했을 때:

신 선 한 공 기 나 산 소를 공급받고, 의료진의 도움을 구한다.

환자가 의식을 잃었을 경우에는 안전한 자세에서 환자를 운반한다.

· **피부에 접촉했을 때:** 즉시물과비누로씻고잘헹군다.

눈예눈에들때갔을 때: 흐르는 물에 눈을 몇분동안 씻어내고나서, 의사와 상담한 다

· 먹었을 때:

즉 시 의사의 도움을 구한다.

물을 충분히 마시고 신선한 공기를 쐰다. 즉시 의사의 도움을 구한다.

기타기타고타의 주의사항:

가장가장 종일 한다는 15세종생활사명향영향</u> 적인 정보가 존재하지 않습니다.

· **즉각적인 의료처치 및 특별치료가 필요함을 시사 하냥 징후 쨩**환적인 정보가 존재하지 않습니다.

5 폭발·화재시 대처방법

- · 소화제
- · **적절한 소화제:** 주 변 환 경에 맞는 화 재 진 화방법을 사용한다.
- · 본 화학물질이나 혼합물에서 발생하별특별목쾌성 추가적인 정보가 존재하지 않습니다.
- · 소방관에 대한대한고사항

화재**화제화제 진압 용할 보호구 및 예방조치:** 호흡보호장비설치.

6 누출 사고 시 대처방법

· 개인적 예방조치, 보호장비 및 응급전체절차절차전 장 비 착 용하고, 무 방 비 의 사 람 은 격 리 시킨다.

환경**환경환경 관방 조치**:

하천이나하수도로유입되었을경우해당관청에보고한다.

많 은 물 로 희석 시킨다.

하수도망/해수면위의물/지하수로도달하지않게한다.

밀폐밀**폐멸환**정화**곓화괘소재소**재

액 체 가 혼 합 된 물 질 (모 래, 규 조 토, 산 성 결 합 물, 일 반 결 합 물, 톱 밥)에 흡입되도록 한다.

중성제를사용한다.

항목 13에 따라 오염된 물질을 쓰레기로 처분한다.

충분한 환기가 되도록 한다.

섹**뎐솋俖솋**쟙참조

안 전 관 리 에 대한 정보는 제7 장 을 참고하시오.

개 인 보 호 장 비에 대한 정보는 제8 장 을 참고하시 오.

쓰레기처리에 대한 정보는 제13 장을 참고하시오.

7취급 및 저장방법

취급취급취급

안전안전**약점을 위한 웨방조치**

작업장에서는통풍이잘되고/습기제거가잘되게주의한다.

(4 쪽에계속)

물질안전보건자료 GHSMM 따라라따

인쇄일자: 2020,04.03 개정: 2020,04.03

제품명: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(3 쪽부터계속)

조심스럽게용기를개봉하거나취급한다. 연무질이형성되는것을피한다.

화재**화재활동(발품)발계방대책에 관련증변정**흡보호장비를항상비치한다.

· 혼합위험성의됐어졌었다.

보관보관보관

- · 안전한 제작/체험 방법별 한 요구사항이 없음.
- · 하냐영 권퇴범과 보험에 대한 백환 관래정반 정말 요없음
- · 보관조건에관한추가적연정보증원기를새지않게밀폐한채보관한다.
- · 구체점 최종 최종자 추가적인 정보가 존재하지 않습니다.

8 노출방지 및 개인보호구

· 첨단시설 디자연예 대한 화정보: 더 이 상 의 자료는 없음. 항 목 7 을 참고하시 오.

통제 동제 동제 등 변수

ㆍ화학물질의 노출기준, 생물학적 노출기준 등:

111-30-8 글루타르알데히드

TLV (KR) 최고노출기준: 0.05 ppm

REL (US) 최고노출기준: 0.8 mg/m³, 0.2 ppm

See Pocket Guide App. C

TLV (US) 최고노출기준: 0.2 mg/m³, 0.05 ppm

DSEN;RSEN ;activated or inactivated

· **呑)보정보조보조** 할 당시에 유 효 한 목 록을 기초로 사용했다.

노출 **통劃통체**통제

개인개**인계연구**

· 일반적보호조치및위생조치:

식료품, 음료수와사료로부터 멀리떨어뜨려놓는다.

더러워지거나음료수가묻은옷은즉시탈의한다.

휴 식 전 이 나 작업이 끝날때마다 손을 씻는다.

방호복은따로보관한다.

눈과의 접 촉 을 피 한 다.

눈 과 피 부와의 접 촉 은 피 한 다.

· 호**환**호보호보호

단 시 간 또 는 경 미 한 오 염 의 경 우에는 호 흡 여 과 기 를 사 용 한 다. 심각한 또 는 장 기 간 노 출시에 는 호 흡 보 호 장 비 를 사 용 한 다.

보호보호보호



보 호용 장 갑

장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성이있어야한다.

테 스 트 를 하 지 않 았기 때문에 제 품 / 조 제 / 화 학 혼 합 물에 적합한 장갑재질에 대한 추천이 없다. 투과 시 간, 침 투 율 과 저하를 고 려해서 장 갑 재 료를 선택한다.

·장갑의재료

적합한장갑의선정은재질차이뿐아니라품질기준의차이도고려하여이루어져야하고제조업종에따라서도다르게선정되어야한다. 제품은다양한재료로부터의조제로이루어지는것이기때문에, 장갑재질의안정성은사전에예측되어질수있는것이아니고. 반드시사용전에 (그안전성이) 체크되어져야한다.

· 장 갑 재 료 의 투과시 간 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.

(5 쪽에계속)

물질안전보건자료 GH&%예따라라따

인쇄일자: 2020.04.03 개정: 2020.04.03

제품명: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(4 쪽부터계속)

<u>부층</u> 보호보호



꽉조이는보안경

9 물리화학적 특성	
기본 建記[建記] 點:화학적 특성(建 (생 환 · 일반정보 외형외형외형	변 재발 정보
물 改격상 태 상 태 샠: 냄새 냄 새 냄새	액체 색소가없는 특색있는
· 후각역치 · pH 의경우 20 °C:	알맞지않다. 7.4
•	7.7
· 상태변화 녹는점/어는점: 초기초기 恭社점과 끓본점 범위범 ⁹	맞지않는 위맞지않는
· 인화점:	해당사항 없음.
· 인 화생(고체(고체)기체	해당사항 없음.
분해 분해운 온도	알맞지않다.
· 자기점화:	이제품은자연발화성이없다.
· 폭발위험:	이제품은폭발위험성이없다
인화 연화 연화 변환 폭발 목가 되는 생산 전 보이 한 생산 전 보이 된 생산 전	
아래로: 위로위로위로	알맞지않다. 알맞지않다.
· 증기압 의경우 20 °C:	23 hPa
밀도밀도 일[경 우 20 °C: 비중비중비중 · 증기밀도:	1.01 g/cm³ 알맞지않다. 알맞지않다.
증발 종발종발 속도	알맞지않다.
· 용해도: 물:	완전히혼합할수있는
· n 옥탄올/물 분배계수:	알맞지않다.
점도점도점도 역학성: 동점성:	알맞지않다. 알맞지않다.
· 용매내용물 물: VOC (EU)	94.9 % 0.00 %
고 秿얳함량 함량	0.0 %

물질안전보건자료 GHSM매따라라따

인쇄일자: 2020,04.03 개정: 2020,04.03

제품명: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(5 쪽부터계속)

기타**장박정박**정보

추가적인 정보가 존재하지 않습니다.

10 안정성 및 반응성

- · 반응성 추가적인 정보가 존재하지 않습니다.
- · 화학적 안정성
- · 화학적 안정성은GII유해 환율의 가능성 / 피해이조함조건조관성에따라사용할경우해체는없다
- · 유해반응 가능성 위험한반응으로는알려지지않았다.
- · **피해야할조건조**간적인 정보가 존재하지 않습니다.
- 혼합 혼합 [출제 물제 물질가적인 정보가 존재하지 않습니다.
 - · 유해분해물질: 위험성있는분해물들은알려지지않았다.

11 독성에 관한 정보

· 독성학적 영향에 대한대한</mark> 정보

급성**픏썷**톸쌣돍성

· LD/LC50-수 체예 (世름) 변류 분류

111-30-8 글루타르알데히드

구강의 LD50 134 mg/kg (rat)

피부의 LD50 2,560 mg/kg (rabbit)

일체적 極괴棒과효과

피부**피부 과본상 또는 지금성:** 피부와점막에강한부식작용.

심한 심한(##한(### 도시금 성:

강한부식작용

심각한안구상처의위험이있는강한자극

· 감각화:

호흡을통한감각화가능성이있다.

피부접촉을통하여감각화가능성이있다.

· 추 가 적 인 독성에 관련관련보정보

이제품은유럽공동체의공동분류원칙의합법적인절차에근거하여최근에발효된원고에서아래위험들의사전 준비에대하여제시하고있다.

독성의

건강에해로운

부식작용의

자극적인

삼킬경우식도나위등의내장기관벽에상처를주는위험과마찬가지로입주변이나구강에강한부식작용을한다

12 환경에 미치는 영향

독성독**성**독성

- · **수생독성:** 추가적인 정보가 존재하지 않습니다.
- · **지속성 및 분해성** 추가적인 정보가 존재하지 않습니다.
- · 환 경 시스템에서의 행 등:
- · 생물농축 잠재성 추가적인 정보가 존재하지 않습니다.
- · **토양내 이동성** 추가적인 정보가 존재하지 않습니다.
- · 생태독성:

의견**의견**의견

어류에독이됨

어류에해로움

(7 쪽에계속)

물질안전보건자료 GHS에따라라따

인쇄일자: 2020.04.03 개정: 2020.04.03

제품명: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(6 쪽부터계속)

· **추가적인 생태확**정보정보

일반**열병멸징**특징

수질오염등급 3 (자체등급분류): 심하게수질오염이된

지하수나, 하천으로또는하수도망에도달하지않게한다. 역시극소수의양이라도안된다.

희석시키지않은채또는중화시키지않은채하수도나배수로에도달하지않게해야한다.

지하수로아주미세한양이유입되었을경우엔이미식수오염상태이다

하천에서는역시물고기나플란크톤게는독성이있다.

물속의유기체에독이되는것

물속의유기체에해가되는것

- · PBT(잔류성, 생물농축성 물전물질물질망PvB(고 잔류성, 고 생물농출절물질물질과절과결과
- · PBT(**잔류성, 생물농축성 꽃성물** 절물 절당사항 없음.
- · vPvB(고 잔류성, 고 생물농幸절물질물좹당사항 없음.

기타기**타 神작용** 추가적인 정보가 존재하지 않습니다.

13 폐기시 주의사항

· 폐**저물**| 청례생례방법

권고권고권생활쓰레기와함께처리되어서는안된다. 하수도망으로유입되서는안된다.

· 비**위생정** 포장포장

권고권고권등국의지침에입각한쓰레기처리.

· 추 천 세정제: 경우에따라서세제가첨가된물

14 운송에 필요한 정보

· **환경적 유해물질:** 해당사항 없음.

· **이용难특별퉤據조치** 해당사항 없음.

· MARPOL73/78(선박으로부터의 해양오염방지협 약) 부속서2 및 IBC Code(국제선적화물코드)에 따

법**의 법교법(의송운송**운송 해당사항 없음.

15 법적 규제현황

· **산업안전보건법(혜 약형**()(작)헤규제

제조제조제조점 지물질:

어떠한내용물도목록화되어있지않다

허가대상물질:

어떠한내용물도목록화되어있지않다

관리대상유해물질:

111-30-8 글루타르알데히드

· 작**업환경촉평** 대상대**위**해인자

111-30-8 글루타르알데히드

1A1

· 특수건강**진**당 대상대**%해**인자

111-30-8 글루타르알데히드

1A2

(8 쪽에계속)

물질안전보건자료 GHSIO대따라라따

인쇄일자: 2020.04.03 개정: 2020.04.03

제품명: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(7 쪽부터계속)

· Korean Ex	xisting Chemical Inventory	
111-30-8	글루타르알데히드	KE-27969
7778-77-0	potassium dihydrogenorthophosphate	KE-28622
7732-18-5	물	KE-35400

화학물질관리법

·사고대비물질

어떠한내용물도목록화되어있지않다

·금지물질

어떠한내용물도목록화되어있지않다

ㆍ제한물질

어떠한내용물도목록화되어있지않다

·유독물질

111-30-8 글루타르알데히드

ㆍ허가물질

111-30-8 글루타르알데히드

등록등록등학교또는 면제대상 화학물질

7732-18-5 물

ㆍ'21년까지 등록하여야 할 암, 돌연변이, 생식능력 이상을 일으키거나 일으킬 우려가 있는 기존화학물질 어떠한내용물도목록화되어있지않다

- · **중점관리물젤(왜지정**지정
- · 표1 중점관리물질(제관조관관련관련

어떠한내용물도목록화되어있지않다

· 표2 중점관리물질(제관조관관련관련

어떠한내용물도목록화되어있지않다

· (궤뼪라백관박요소

본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

·그림문자







GHS05 GHS06 GHS08

- · **신호어** 위험
- · 상표상에명확히위험성이표시된성분:

글루타르알데히드

유해**유병환환(문향**문구

흡입하면 유독함

피부에 심한 화상과 눈에 손상을 일으킴

흡입 시 알레르기성 반응, 천식 또는 호흡 곤란 등을 일으킬 수 있음

알레르기성 피부 반응을 일으킬 수 있음

호흡 자극성을 일으킬 수 있음

장기적 영향에 의해 수생생물에 유해함

· 예방조차문구문구

피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하시오. 피부를 물로 씻으시오/샤워하시오

(9 쪽에계속)

물질안전보건자료 GHSM매따라라따

인쇄일자: 2020.04.03 개정: 2020.04.03

제품명: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(8 쪽부터계속)

눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하시오. 계속 씻으시오. 즉시 독성물질센터/병원 연락 필요.

(라벨 참조) 처치를 하시오.

오염된 의복은 벗고 다시 사용 전 세척하시오.

밀봉하여 저장하시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하시오.

· 화학물질 안전성 평가가 수행되지 않음

16 그 밖의 참고사항

이보고는우리지식에대한오늘날의상태에대하여평가하고있다, 하지만이보고서는생산특성에관한보증은 기술하지않았으며계약적인법률관계에기반을두고있지도않다

최초최초최철일자: 2020.04.03

개정개**정 根給 陰 최종 쾌점 일자:** 1 / 2020.04.03

· 약어와 두문자어:

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

KR

打印日期 2020.04.03 在 2020.04.03 審核

1化學品與廠商資料

- ·產品識別者
- · 化學品 使效 英 灣 網 名 網 品 俗名 或 商 品 名:Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · 商品編號: 16539-30, 16539-40, 16539-35
- · 相應純物質或者混合物的相關下位用途及禁止用途 無相關詳細資料。
- · 原材料的應用/准備工作進行 實驗室化學物
- ·安全技術說明書內供應商詳細信息
- ·企業名稱:

Electron Microscopy Sciences 1560 Industry Road USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

- · 可獲取更多資料的部門: Product safety department
- ·緊急聯繫電話號碼:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

2 危害辨識資料

· 緊急情況概述:

無色的, 液體, 吞食可能有害。 吸入有毒。 造成嚴重皮膚灼傷和眼睛損傷。 吸入可能導致過敏或哮喘病症狀或呼吸困難。 可能造成皮膚過敏。 可能造成呼吸道刺激。 對水生生物有毒。 對水生生物有害並 具有長期持續影響。

·GHS危險性類別



計體和交叉骨

急毒性物質(吸入) 第3級

H331 吸入有毒



健康危險

呼吸道過敏物質 第1級

H334 吸入可能導致過敏或哮喘病症狀或呼吸困難



腐蝕

腐蝕/刺激皮膚物質 第1B級

H314 造成嚴重皮膚灼傷和眼睛損傷

嚴重損傷/刺激眼睛物質 第1級

H318 造成嚴重眼睛損傷



皮膚過敏物質 第1級

H317 可能造成皮膚過敏

特定標的器官系統毒性物質(單一暴露) 第3級 H335 可能造成呼吸道刺激

急毒性物質(吞食) 第5級

H303 吞食可能有害

水環境之危害物質(急毒性) 第2級

H401 對水生生物有毒

(在2頁繼續)

打印日期 2020.04.03 在 2020.04.03 審核

化學品 供效 类類名類名略學品俗名或商品名: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(在1頁繼續

水環境之危害物質(慢毒性) 第3級

H412 對水生生物有害並具有長期持續影響

- ·標籤因素
- ·GHS標籤元素 本產品根據化學物質分類及標記全球協調制度(GHS)進行了分類及標記。

圖示圖示圖示







GHS05 GHS06 GHS08

名稱名稱卷橡

· 標簽上辨別危險的成份:

1,5- 戊二 醛

·危險字句

吞食可能有害

吸入有毒

造成嚴重皮膚灼傷和眼睛損傷

吸入可能導致過敏或哮喘病症狀或呼吸困難

可能造成皮膚過敏

可能造成呼吸道刺激

對水生生物有毒

對水生生物有害並具有長期持續影響

- ·警戒字句
- ·事故響應

如皮膚(或頭髮)沾染:立即移除或脫掉所有沾染的衣物。用水沖洗/淋洗皮膚。

如進入眼睛:用水小心清洗數分鐘。如帶隱形眼鏡且可方便地取出,取出隱型眼鏡。繼續清洗。

立即呼叫解毒中心/醫生

專項處置(參見本標示)。

脫掉沾染的衣服,清洗後方可重新使用

·安全貯存

加鎖存放。

廢棄處置

按照地方/區域/國家/國際法規處理內容物之廢棄/容器。

- ·其他有害性
- ·PBT(殘留性、生物濃縮性、毒性物質)及 vPvB(高殘留性、高生物濃縮性物質)評價結果
- · PBT(**殘留性、生物濃縮性、毒性物質**) 不適用的
- $\cdot vPvB($ **高殘留性、高生物濃縮性物質**): 不適用的

3 成分辨識資料

·混合物

描述描述描述以下含有無害添加濟的成分組成的混合物

· 危險的成分:

111-30-8 1,5- 戊二 醛

>2.5-≤10%

◆ 急毒性物質(吞食) 第3級, H301; 急毒性物質(吸入) 第2級, H330; ◆ 呼吸道過敏物質 第1級, H334; ◆ 腐蝕/刺激皮膚物質 第1B級, H314; ◆ 水環境之危害物質(急毒性) 第1級, H400; 水環境之危害物質(慢毒性) 第2級, H411; ◆ 皮膚過敏物質 第1級, H317; 特定標的器官系統毒性物質(單一暴露) 第3級, H335; 易燃液體第4級, H227; 急毒性物質(皮膚) 第5級, H313

1 W

打印日期 2020.04.03 在 2020.04.03 審核

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(在2頁繼續)

4急救措施

- ·應急措施要領
- · 總說明:

馬上脫下染有該產品的衣服.

中毒的症狀可能會在幾個小時以後才出現:因此在發生事故之後起碼要有 48 小時的醫療觀察.

只在徹底地脫去了已被汙染的衣服之後才能移走呼吸儀器.

萬一出現了不規則的呼吸或呼吸的阻礙,請為病人提供人工呼吸.

吸入吸入吸入

供給新鮮空氣或氧氣:叫醫生.

萬一病人不清醒時,請讓病人側趟以便移動.

- · 皮膚接觸: 馬上用水和肥皂進行徹底的沖洗.
- ·眼睛接觸: 張開眼睛在流水下沖洗數分鐘. 然後諮詢醫生.

食入食入食入

馬上召喚醫生

喝大量的清水和提供新鮮的空氣. 馬上召喚醫生.

- · 給醫生的資料:
- · 最重要的急慢性症狀及其影響 無相關詳細資料。
- ·需要及時的醫療處理及特別處理的症狀 無相關詳細資料。

5 滅火措施

- ·滅火方法
- ·滅火的方法和滅火劑: 使用適合四周環境的滅火措施.
- ·特別危險性 無相關詳細資料。
- · 特殊滅火方法
- ·消防人員特殊的防護裝備: 口腔呼吸保護裝置.

6 洩漏處理方法

- ·保護措施 帶上保護儀器. 讓未受到保護的人們遠離.
- ·環境保護措施:

如果滲入了水源或汙水系統,請通知有關當局.

用大量的水進行稀釋.

切勿讓其進入下水道/水面或地下水.

密封及淨化方法和材料:

吸收液體粘合原料(沙粒、矽藻土、酸性粘合劑、通用粘合劑、鋸屑).

使用中和劑

根據第13條條款棄置受汙染物.

確保有足夠的通風裝置.

·參照其他部分

有關安全處理的資料請參閱第7節.

有關個人保護裝備的的資料請參閱第8節.

有關棄置的資料請參閱第13節.

7 安全處置與儲存方法

·操作處置

儲存儲存儲存

確保工作間有良好的通風/排氣裝置.

小心打開及處理貯藏器.

(在4頁繼續)

打印日期 2020.04.03 在 2020.04.03 審核

化學品 中xx 完和名類名略學品俗名或商品名: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(在3頁繼續)

防止氣溶膠的形成.

- · 有關火災及防止爆炸的資料: 提供呼吸保護裝置.
- ·混合危險性等安全儲存條件

儲存儲存儲存

- · 儲存庫和容器須要達到的要求: 沒有特別的要求.
- · 有關使用一個普通的儲存設施來儲存的資料: 不需要.
- · 有關儲存條件的更多資料: 將容器密封.
- · 具體的最終用戶 無相關詳細資料。

8 暴露預防措施

- ·工程控制方法:沒有進一步數據:見第7項.
- ·控制變數
- ·在工作場需要監控的限值成分

111-30-8 成5二戊二厘二

PEL (TW) PC-TWA: 0.82 mg/m³, 0.2 ppm

- · **額外的資料:** 制作期間有效的清單將作為基礎來使用.
- ·遺漏控制
- · 個人防護設備:
- ·一般保護和衛生措施:

遠離食品、飲料和飼料

立即除去所有的不潔的和被汙染的衣服.

在休息之前和工作完畢後請清洗雙手.

分開儲存保護性衣服.

避免和眼睛接觸.

避免和眼睛及皮膚接觸.

· 呼吸系統防護:

如果曾短暫接觸或在低汙染的情況下,請使用呼吸過濾裝置. 如果曾深入或較長時間接觸,請使用獨立的呼吸 保護裝置.

. 手防護:



保護手套

手套的物料必須是不滲透性的,且能抵抗該產品/物質/添加劑. 基於缺乏測試,對於產品/制劑/化學混合物,並不會提供手套材料的建議 選擇手套材料時,請注意材料的滲透時間,滲濾率和降解參數

· 手套材料

選擇合適的手套不單取決於材料,亦取決於質量特征,以及來自哪一間生產廠家,因為該產品是由很多材料配制而成,手套材料的抵抗力並不可預計,所以,必須在使用之前進行檢查

- · **滲入手套材料的時間** 請向勞保手套生產廠家獲取准確的破裂時間並觀察實際的破裂時間
- ·眼睛防護:



密封的護目鏡

打印日期 2020.04.03 在 2020.04.03 審核

(在4頁繼續)

9物理及化學性質

· 有關基本物理及化學特性的資訊

·一般說明

外觀外觀外觀

形狀形狀形狀 液體 顏色顏色顏色 無色的 有特性的 **氣味氣味**氣味 ·嗅覺闡限 未決定.

· pH值在20°C: 7.4

·條件的更改

熔點熔點熔點 未確定的 沸點沸點**測離點和沸程:** 未確定的

不適用的 閃點閃點閃點

·**可燃性 (固體、氣體):** 不適用的

· 分解溫度: 未決定.

· 自燃溫度: 該產品是不自燃的

·爆炸的危險性: 該產品並沒有爆炸的危險

·爆炸極限:

較低較低較低 未決定. 未決定. 較高較高較高

23 hPa · 蒸氣壓 在 20 °C:

密度密度密度0°C: 1.01 g/cm³ 未決定. 未決定. ·蒸氣密度 未決定.

解溶解性解性

·蒸發速率

完全可拌和的 水:

辛醇辛醇磷酸配係遺係 未決定.

· 黏性:

動態動態動態 未決定. 未決定. 運動**運動變動**學的

· 溶劑成份:

94.9 % 水:

固體成份: 0.0 %

·其他資訊 無相關詳細資料。

10 安定性及反應性

應煙應性應性關詳細資料。

穩定**穩定權**定

分類分解逻辑免勤情况:如果遵照規格使用則不會分解.

有害有蹇履應可能懂 未有已知的危險反應.

避**應避免驗儀件** 無相關詳細資料。

· 不相容的物質: 無相關詳細資料。

(在6頁繼續)

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化學品 供效 类類名類名略學品俗名或商品名: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

· **危險的分解產物:** 未知有危險的分解產品.

(在5頁繼續)

11 毒性資料

- · 對毒性學影響的資訊
- · 急性毒性:
- · 與分類相關的 LD/ LC50 值:

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口腔 LD50 134 mg/kg (rat)

皮膚 LD50 2,560 mg/kg (rabbit)

要的刺激刺激性影響:

皮膚皮膚皮膚皮膚和粘膜上造成強烈的腐蝕性影響.

·在眼睛上面:

強烈的腐蝕性影響.

強烈的刺激性和造成嚴重傷害眼睛的危險.

致敏**蛰敏**蛰舟作用

通過吸入可能造成敏化作用.

通過皮膚接觸可能造成敏化作用.

· 更多毒物的資料:

根據有關配制的一般歐盟分類指南的計算方法(刊印在最新版本),該產品顯示以下的危險:

毒性的

有害的

腐蝕性的

刺激性的

吞咽該產品除了導致口部和喉嚨出現強烈的腐蝕性現象之外、還有對食道和胃部造成穿孔的危險。

12 生態資料

- · 毒態毒性毒性
- ·水生毒性:無相關詳細資料。

- ·環境系統習性:
- · 潜在的 **生物** 累積 **集** 稱 關詳細資料。
- 土壤土**寝勴穣動稜** 數相關詳細資料。
 - · 生態毒性的影響:
 - · 備注:

對魚類有毒

對魚類有害

· 額外的生態學資料:

括總括注解注

水危害級別 3 (德國規例) (通過名單進行自我評估): 對水是極其危害的

即使是小量,,不要讓該產品接觸地下水、水道或汙水系統.

不要讓未被稀釋或未被中和的產品接觸下水道或排水溝渠.

即使是極其小量的產品滲入地下也會對飲用水造成危險.

對水體中的魚和浮遊生物也有毒害.

對水中的有機物有毒.

對水中的有機物有危害.

- · PBT(殘留性、生物濃縮性、毒性物質) 及 vPvB(高殘留性、高生物濃縮性物質)評價結果
- · PBT(殘留性、生物濃縮性、毒性物質) 不適用的
- $\cdot vPvB$ (高**殘留性、高生物濃縮性物質):** 不適用的

(在7頁繼續)

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化學品 供效 英類名類名略學品俗名或商品名: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(在6頁繼續)

其他其他團作用無相關詳細資料。

13 廢棄處置方法

·廢棄處置方法

建議建議建議能將該產品和家居垃圾一起丟棄. 不要讓該產品接觸汙水系統.

· 受污染的容器和包裝:

建議建議建議負根據官方的規章來丟棄.

建議建議檢議洗劑洗如有必要請使用水及清潔劑進行清潔.

14 運送資料

· 危害環境:

不適用的

·用戶特別預防措施

不適用的

·MARPOL73/78(針對船舶引起的海洋污染讓防協約協約

運送運送運送

不適用的

· UN "標準規定":

無效

15 法規資料

- ·對相應純物質或者混合物的安全、保健及環境法規/法律
- · 優先管理化學品之指定及運作管理辦法

附表附表附**考於未滿十八歲蔟妖娠妓娠娘後未滿**女年女**律缵工具危害性之化學**品

沒有列出成份

二鐮二條蠶鐮款第款第

沒有列出成份

二鐮二條蘿鐮款第款篻

111-30-8 1,5- 戊二 醛

·新化學物質及既有化學物質資料登錄辦法 英

沒有列出成份

國現國現廟俄學物質名錄

列出所有成分

· TCSCA

列管**編號編號**編號

沒有列出成份

·毒性分類

沒有列出成份

· 管制濃度 (w/w%)

沒有列出成份

· 大量運作基準基公斤)

沒有列出成份

(在8頁繼續)

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化學品 使效 斑斓笔瓣名雕晶俗名或商品名: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(在7頁繼續)

·新化學物質及既有化學物質資料登錄辦法、附表六

沒有列出成份

· TCSI - Taiwan Chemical Substance Inventory

列出所有成分

·GHS標節元素 本產品根據化學物質分類及標記全球協調制度(GHS)進行了分類及標記。

圖示圖示圖示







GHS05

GHS06 GHS08

名稱名稱 名称

· 標簽上辨別危險的成份:

1,5- 戊二 醛

·危險字句

吞食可能有害

吸入有毒

造成嚴重皮膚灼傷和眼睛損傷

吸入可能導致過敏或哮喘病症狀或呼吸困難

可能造成皮膚過敏

可能造成呼吸道刺激

對水生生物有毒

對水生生物有害並具有長期持續影響

·警戒字句

· 事故響應

如皮膚(或頭髮)沾染:立即移除或脫掉所有沾染的衣物。用水沖洗/淋洗皮膚。

如進入眼睛:用水小心清洗數分鐘。如帶隱形眼鏡且可方便地取出,取出隱型眼鏡。繼續清洗。

立即呼叫解毒中心/醫生

專項處置(參見本標示)。

脫掉沾染的衣服,清洗後方可重新使用

·安全貯存

加鎖存放。

廢棄處置

按照地方/區域/國家/國際法規處理內容物之廢棄/容器。

· 化學物質安全性評價: 尚未進行化學物質安全性評價

16 其他資料

該資料是基於我們目前的知識. 然而,這並不構成對任何特定產品特性的擔保並且不建立一個法律上有效的 合同關系.

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: 持久性生物累積性有毒物質

vPvB: very Persistent and very Bioaccumulative

易燃液體 第4級: Flammable liquids - Category 4

多点が、語 等等が、Flailillable injulies – Category 4 急毒性物質(吞食) 第3級: Acute toxicity – Category 3 急毒性物質(吸入) 第2級: Acute toxicity – Category 5 急毒性物質(吸入) 第2級: Acute toxicity – Category 2 腐蝕/刺激皮膚物質 第1B級: Skin corrosion/irritation – Category 1B

(在9頁繼續)

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化學品 供效 英類名類名略學品俗名或商品名: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

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嚴重損傷/刺激眼睛物質 第1級: Serious eye damage/eye irritation – Category 1

呼吸道過敏物質 第1級: Respiratory sensitisation – Category 1

皮膚過敏物質 第1級: Skin sensitisation — Category 1 特定標的器官系統毒性物質(單一暴露) 第3級: Specific target organ toxicity (single exposure) — Category 3 水環境之危害物質(急毒性) 第1級: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

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Ficha de datos de seguridad según 1907/2006/CE, Artículo 31

fecha de impresión 03.04.2020 Revisión: 03.04.2020

SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

- · 1.1 Identificador del producto
- · Nombre comercial: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Número del artículo: 16539-30, 16539-40, 16539-35
- · 1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados No existen más datos relevantes disponibles.
- · Utilización del producto / de la elaboración Sustancias químicas de laboratorio
- · 1.3 Datos del proveedor de la ficha de datos de seguridad
- · Fabricante/distribuidor:

Electron Microscopy Sciences 1560 Industry Road USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Aname

C/ Perez Galdos no. 2 28693 Quijorna Madrid, Spain

Tel: +34.91.816.89.50 Fax: +34.91.816.85.94 email: ventas@aname.es

- · Área de información: Product safety department
- · 1.4 Teléfono de emergencia:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

SECCIÓN 2: Identificación de los peligros

- · 2.1 Clasificación de la sustancia o de la mezcla
- · Clasificación con arreglo al Reglamento (CE) nº 1272/2008



GHS06 calavera y tibias cruzadas

Acute Tox. 3 H331 Tóxico en caso de inhalación.



GHS08 peligro para la salud

Resp. Sens. 1 H334 Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.



GHS05 corrosión

Skin Corr. 1B H314 Provoca quemaduras graves en la piel y lesiones oculares graves.

Eye Dam. 1 H318 Provoca lesiones oculares graves.



(se continua en página 2)

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Nombre comercial: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(se continua en página 1)

Skin Sens. 1 H317 Puede provocar una reacción alérgica en la piel.

STOT SE 3 H335 Puede irritar las vías respiratorias.

Aquatic Chronic 3 H412 Nocivo para los organismos acuáticos, con efectos nocivos duraderos.

· 2.2 Elementos de la etiqueta

· Etiquetado con arreglo al Reglamento (CE) nº 1272/2008

El producto se ha clasificado y etiquetado de conformidad con el reglamento CLP.

· Pictogramas de peligro







GHS06

- · Palabra de advertencia Peligro
- · Componentes peligrosos a indicar en el etiquetaje: glutaral
- · Indicaciónes de peligro

H331 Tóxico en caso de inhalación.

H314 Provoca quemaduras graves en la piel y lesiones oculares graves.

H334 Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.

H317 Puede provocar una reacción alérgica en la piel.

H335 Puede irritar las vías respiratorias.

H412 Nocivo para los organismos acuáticos, con efectos nocivos duraderos.

· Consejos de prudencia

P303+P361+P353 EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua [o ducharse].

P305+P351+P338 EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante

varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con

facilidad. Proseguir con el lavado.

P310 Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA/médico.

P321 Se necesita un tratamiento específico (ver en esta etiqueta).

Quitar las prendas contaminadas y lavarlas antes de volver a usarlas. P362+P364

P405 Guardar bajo llave.

Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/ P501

internacional.

· 2.3 Otros peligros

· Resultados de la valoración PBT y mPmB

· **PBT**: No aplicable.

· mPmB: No aplicable.

SECCIÓN 3: Composición/información sobre los componentes

- · 3.2 Caracterización química: Mezclas
- · Descripción: Mezcla formada por las substancias especificadas a continuación con adiciones no peligrosas.

· Componentes peligrosos:

CAS: 111-30-8 EINECS: 203-856-5

glutaral 🔗 Acute Tox. 3, H301; Acute Tox. 2, H330; 🗞 Resp. Sens. 1, H334; 📀 Skin

>2,5-≤10%

Corr. 1B, H314; 🚯 Aquatic Acute 1, H400; Aquatic Chronic 2, H411; 🕦 Skin Sens. 1A, H317; STOT SE 3, H335

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Ficha de datos de seguridad según 1907/2006/CE, Artículo 31

fecha de impresión 03.04.2020 Revisión: 03.04.2020

Nombre comercial: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(se continua en página 2)

· Indicaciones adicionales: El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

SECCIÓN 4: Primeros auxilios

- · 4.1 Descripción de los primeros auxilios
- · Instrucciones generales:

Quitarse de inmediato toda prenda contaminada con el producto.

Los síntomas de intoxicación pueden presentarse después de muchas horas, por lo que se requiere una supervisión médica durante un mínimo de 48 horas después del accidente.

Antes de quitarse la protección respiratoria, quítese la ropa contaminada.

En caso de respiración irregular o apnea (paro respiratorio), hágase la respiración artificial.

· En caso de inhalación del producto:

Suministrar aire fresco u oxígeno; solicitar ayuda médica.

Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.

- · En caso de contacto con la piel: Lavar inmediatamente con agua y jabón y enjuagar bien.
- · En caso de con los ojos:

Limpiar los ojos abiertos durante varios minutos con agua corriente y consultar un médico.

· En caso de ingestión:

Consultar inmediatamente un médico.

Beber mucha agua a respirar aire fresco. Solicitar asistencia médica inmediatamente.

- 4.2 Principales síntomas y efectos, agudos y retardados No existen más datos relevantes disponibles.
- · 4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente No existen más datos relevantes disponibles.

SECCIÓN 5: Medidas de lucha contra incendios

- · 5.1 Medios de extinción
- · Sustancias extintoras apropiadas: Combatir los incendios con medidas adaptados al ambiente circundante.
- 5.2 Peligros específicos derivados de la sustancia o la mezcla No existen más datos relevantes disponibles.
- · 5.3 Recomendaciones para el personal de lucha contra incendios
- · Equipo especial de protección: Colocarse la protección respiratoria.

SECCIÓN 6: Medidas en caso de vertido accidental

· 6.1 Precauciones personales, equipo de protección y procedimientos de emergencia

Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.

· 6.2 Precauciones relativas al medio ambiente:

Al penetrar en las aguas o en el alcantarillado, avisar a las autoridades pertinentes.

Diluir con mucha agua.

Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.

· 6.3 Métodos y material de contención y de limpieza:

Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín). Utilizar un neutralizador.

Desechar el material contaminado como vertido según item 13.

Asegurar suficiente ventilación.

· 6.4 Referencia a otras secciones

Ver capítulo 7 para mayor información sobre una manipulación segura.

Ver capítulo 8 para mayor información sobre el equipo personal de protección.

Para mayor información sobre cómo desechar el producto, ver capítulo 13.

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Ficha de datos de seguridad según 1907/2006/CE, Artículo 31

fecha de impresión 03.04.2020 Revisión: 03.04.2020

Nombre comercial: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(se continua en página 3)

SECCIÓN 7: Manipulación y almacenamiento

· 7.1 Precauciones para una manipulación segura

Asegurar suficiente ventilación /aspiración en el puesto de trabajo.

Abrir y manejar el recipiente con cuidado.

Evitar la formación de aerosoles.

- · Prevención de incendios y explosiones: Tener preparados los aparatos respiratorios.
- · 7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades
- · Almacenamiento:
- · Exigencias con respecto al almacén y los recipientes: No se requieren medidas especiales.
- · Normas en caso de un almacenamiento conjunto: No es necesario.
- · Indicaciones adicionales sobre las condiciones de almacenamiento:

Mantener el recipiente cerrado herméticamente.

· 7.3 Usos específicos finales No existen más datos relevantes disponibles.

SECCIÓN 8: Controles de exposición/protección individual

- · Instrucciones adicionales para el acondicionamiento de instalaciones técnicas: Sin datos adicionales, ver punto 7.
- · 8.1 Parámetros de control
- · Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:

111-30-8 glutaral

LEP Valor de corta duración: 0,2 mg/m³, 0,05 ppm Sen

- · Indicaciones adicionales: Como base se han utilizado las listas vigentes en el momento de la elaboración.
- · 8.2 Controles de la exposición
- · Equipo de protección individual:
- · Medidas generales de protección e higiene:

Mantener alejado de alimentos, bebidas y alimentos para animales.

Quitarse de inmediato la ropa ensuciada o impregnada.

Lavarse las manos antes de las pausas y al final del trabajo.

Guardar la ropa protectora por separado.

Evitar el contacto con los ojos.

Evitar el contacto con los ojos y la piel.

· Protección respiratoria:

Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.

· Protección de manos:



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / substancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de substancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

· Material de los guantes

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser avaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.

(se continua en página 5)

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(se continua en página 4)

· Tiempo de penetración del material de los guantes

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

· Protección de ojos:



Gafas de protección herméticas

9.1 Información sobre propiedades físicas y quím	icas básicas	
Datos generales		
Aspecto:	** **	
Forma:	Liquido	
Color: Olor:	Incoloro Característico	
Otor: Umbral olfativo:	No determinado.	
valor pH a 20 °C:	7,4	
Cambio de estado		
Punto de fusión/punto de congelación:	Indeterminado.	
Punto inicial de ebullición e intervalo de ebullic	ión: Indeterminado.	
Punto de inflamación:	No aplicable.	
Inflamabilidad (sólido, gas):	No aplicable.	
Temperatura de descomposición:	No determinado.	
Temperatura de auto-inflamación:	El producto no es autoinflamable.	
Propiedades explosivas:	El producto no es explosivo.	
Límites de explosión:		
Inferior:	No determinado.	
Superior:	No determinado.	
Presión de vapor a 20°C:	23 hPa	
Densidad a 20 °C:	1,01 g/cm³	
Densidad relativa	No determinado.	
Densidad de vapor	No determinado.	
Tasa de evaporación:	No determinado.	
Solubilidad en / miscibilidad con		
agua:	Completamente mezclable.	
Coeficiente de reparto: n-octanol/agua:	No determinado.	
Viscosidad:		
Dinámica:	No determinado.	
Cinemática:	No determinado.	
Concentración del disolvente:		
Agua:	94,9 %	

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Ficha de datos de seguridad según 1907/2006/CE, Artículo 31

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Nombre comercial: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(se continua en página 5)

Contenido de cuerpos sólidos: 0,0 %

• 9.2 Otros datos No existen más datos relevantes disponibles.

SECCIÓN 10: Estabilidad y reactividad

- · 10.1 Reactividad No existen más datos relevantes disponibles.
- · 10.2 Estabilidad química
- · Descomposición térmica / condiciones que deben evitarse: No se descompone al emplearse adecuadamente.
- · 10.3 Posibilidad de reacciones peligrosas No se conocen reacciones peligrosas.
- · 10.4 Condiciones que deben evitarse No existen más datos relevantes disponibles.
- · 10.5 Materiales incompatibles: No existen más datos relevantes disponibles.
- · 10.6 Productos de descomposición peligrosos: No se conocen productos de descomposición peligrosos.

SECCIÓN 11: Información toxicológica

- · 11.1 Información sobre los efectos toxicológicos
- · Toxicidad aguda

Tóxico en caso de inhalación.

· Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación:
--

111-30-8 glutaral

 Oral
 LD50
 134 mg/kg (rat)

 Dermal
 LD50
 2.560 mg/kg (rabbit)

- Efecto estimulante primario:
- · Corrosión o irritación cutáneas

Provoca quemaduras graves en la piel y lesiones oculares graves.

· Lesiones o irritación ocular graves

Provoca lesiones oculares graves.

· Sensibilización respiratoria o cutánea

Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.

Puede provocar una reacción alérgica en la piel.

- · Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)
- · Mutagenicidad en células germinales

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

- · Carcinogenicidad A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- · Toxicidad para la reproducción A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- · Toxicidad específica en determinados órganos (STOT) exposición única

Puede irritar las vías respiratorias.

- · Toxicidad específica en determinados órganos (STOT) exposición repetida
- A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- · Peligro de aspiración A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

SECCIÓN 12: Información ecológica

- · 12.1 Toxicidad
- · Toxicidad acuática: No existen más datos relevantes disponibles.
- · 12.2 Persistencia y degradabilidad No existen más datos relevantes disponibles.
- · 12.3 Potencial de bioacumulación No existen más datos relevantes disponibles.
- · 12.4 Movilidad en el suelo No existen más datos relevantes disponibles.

(se continua en página 7)

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Nombre comercial: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(se continua en página 6)

- · Efectos ecotóxicos:
- · Observación:

Tóxico para peces.

Nocivo para los peces.

- · Indicaciones medioambientales adicionales:
- · Indicaciones generales:

Nivel de riesgo para el agua 3 (autoclasificación): muy peligroso para el agua

No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados, ni siquiera en pequeñas cantidades.

En estado no diluido o no neutralizado, no verter en el alcantarillado o en otros sistemas de desagüe.

Una cantidad ínfima vertida en el subsuelo ya representa un peligro para el agua potable.

Vertido en aguas superficiales, también es tóxico para los peces y el plancton.

tóxico para organismos acuáticos

nocivo para organismos acuáticos

- · 12.5 Resultados de la valoración PBT y mPmB
- · PBT: No aplicable.
- · mPmB: No aplicable.
- · 12.6 Otros efectos adversos No existen más datos relevantes disponibles.

SECCIÓN 13: Consideraciones relativas a la eliminación

- · 13.1 Métodos para el tratamiento de residuos
- · Recomendación: No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.
- · Embalajes sin limpiar:
- · Recomendación: Eliminar conforme a las disposiciones oficiales.
- · Producto de limpieza recomendado: Agua, eventualmente añadiendo productos de limpieza.

SECCIÓN 14: Información relativa al transporte

SECOLOT IN INJURIAL CONTRACTOR AND AN	
· 14.5 Peligros para el medio ambiente:	No aplicable.
· 14.6 Precauciones particulares para los usuarios	No aplicable.
· 14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC No aplicable.	
· ''Reglamentación Modelo'' de la UNECE:	suprimido

SECCIÓN 15: Información reglamentaria

- · 15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla
- · Directiva 2012/18/UE
- · Sustancias peligrosas nominadas ANEXO I ninguno de los componentes está incluido en una lista
- · Categoría Seveso H2 TOXICIDAD AGUDA
- · Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior 50 t
- · Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior 200 t
- · REGLAMENTO (CE) nº 1907/2006 ANEXO XVII Restricciones: 3
- · 15.2 Evaluación de la seguridad química: Una evaluación de la seguridad química no se ha llevado a cabo.

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SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contratual.

· Frases relevantes

H301 Tóxico en caso de ingestión.

H314 Provoca quemaduras graves en la piel y lesiones oculares graves.

H317 Puede provocar una reacción alérgica en la piel.

H330 Mortal en caso de inhalación.

H334 Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.

H335 Puede irritar las vías respiratorias.

H400 Muy tóxico para los organismos acuáticos.

H411 Tóxico para los organismos acuáticos, con efectos nocivos duraderos.

· Abreviaturas v acrónimos:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Toxicidad aguda - oral - Categoría 3

Acute Tox. 2: Toxicidad aguda - por inhalación – Categoría 2

Skin Corr. 1B: Corrosión o irritación cutáneas – Categoría 1B

Eye Dam. 1: Lesiones oculares graves o irritación ocular - Categoría 1

Resp. Sens. 1: Sensibilización respiratoria – Categoría 1

Skin Sens. 1: Sensibilización cutánea – Categoría 1 Skin Sens. 1A: Sensibilización cutánea – Categoría 1A

STOT SE 3: Toxicidad específica en determinados órganos (exposición única) – Categoría 3

Aquatic Acute 1: Peligroso para el medio ambiente acuático - peligro acuático agudo – Categoría 1

Aquatic Chronic 2: Peligroso para el medio ambiente acuático - peligro acuático a largo plazo – Categoría 2

Aquatic Chronic 3: Peligroso para el medio ambiente acuático - peligro acuático a largo plazo - Categoría 3

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Säkerhetsdatablad enligt förordning (EG) nr. 1907/2006, Artikel 31

Datum för utskrift: 03.04.2020 Omarbetad: 03.04.2020

AVSNITT 1: Namnet på ämnet/blandningen och bolaget/företaget

- · 1.1 Produktbeteckning
- · Handelsnamn: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4
- · Artikelnummer: 16539-30, 16539-40, 16539-35
- · 1.2 Relevanta identifierade användningar av ämnet eller blandningen och användningar som det avråds från Ingen ytterligare relevant information finns till förfogande.
- · Ämnets användning / tillredningen Laboratoriekemikalier
- · 1.3 Närmare upplysningar om den som tillhandahåller säkerhetsdatablad
- · Tillverkare/leverantör:

Electron Microscopy Sciences 1560 Industry Road USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com www.emsdiasum.com

- · Område där upplysningar kan inhämtas: Product safety department
- · 1.4 Telefonnummer för nödsituationer:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

AVSNITT 2: Farliga egenskaper

- · 2.1 Klassificering av ämnet eller blandningen
- · Klassificering enligt förordning (EG) nr 1272/2008



GHS06 dödskalle med korsande benknotor

Acute Tox. 3 H331 Giftigt vid inandning.



GHS08 hälsofara

Resp. Sens. 1 H334 Kan orsaka allergi- eller astmasymtom eller andningssvårigheter vid inandning.



GHS05 frätande

Skin Corr. 1B H314 Orsakar allvarliga frätskador på hud och ögon.

Eye Dam. 1 H318 Orsakar allvarliga ögonskador.



GHS07

Skin Sens. 1 H317 Kan orsaka allergisk hudreaktion. STOT SE 3 H335 Kan orsaka irritation i luftvägarna.

Aquatic Chronic 3 H412 Skadliga långtidseffekter för vattenlevande organismer.

- · 2.2 Märkningsuppgifter
- · Märkning enligt förordning (EG) nr 1272/2008 Produkten är klassificerad och märkt enligt CLP-förordningen.

(Fortsättning på sida 2)

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(Fortsättning från sida 1)

· Faropiktogram







GHS06

- Signalord Fara
- · Riskbestämmande komponenter för etikettering:

Glutaraldehyd

· Faroangivelser

H331 Giftigt vid inandning.

H314 Orsakar allvarliga frätskador på hud och ögon.

H334 Kan orsaka allergi- eller astmasymtom eller andningssvårigheter vid inandning.

H317 Kan orsaka allergisk hudreaktion.

H335 Kan orsaka irritation i luftvägarna.

H412 Skadliga långtidseffekter för vattenlevande organismer.

· Skyddsangivelser

P303+P361+P353 VID HUDKONTAKT (även håret): Ta omedelbart av alla nedstänkta kläder. Skölj huden med

vatten [eller duscha].

P305+P351+P338 VID KONTAKT MED ÖGONEN: Skölj försiktigt med vatten i flera minuter. Ta ur eventuella

kontaktlinser om det går lätt. Fortsätt att skölja.

P310 Kontakta genast GIFTINFORMATIONSCENTRALEN/läkare.

Särskild behandling (se på etiketten). P321

P362+P364 Ta av nedstänkta kläder och tvätta dem innan de används igen.

P405 Förvaras inlåst.

P501 Innehållet / behållaren avfallshanteras enligt lokala / regionala / nationella / internationella

föreskrifter.

· 2.3 Andra faror

· Resultat av PBT- och vPvB-bedömningen

· **PBT**: Ej användbar. · vPvB: Ej användbar.

AVSNITT 3: Sammansättning/information om beståndsdelar

- · 3.2 Kemisk karakterisering: Blandningar
- · Beskrivning: Blandning bestående av nedan upplistade ämnen med ofarliga tillsatser.

· Farliga ingredienser:	
CAS: 111-30-8 Glutaraldehyd	>2,5- <i>≤</i> 10%
EINECS: 203-856-5	

[·] Ytterligare hänvisningar: De angivna farohänvisningarnas ordalydelse framgår av kapitel 16.

AVSNITT 4: Åtgärder vid första hjälpen

- · 4.1 Beskrivning av åtgärder vid första hjälpen
- · Allmänna hänvisningar:

Klädesplagg som förorenats med produkten skall omedelbart avlägsnas.

Förgiftningssymptom kan uppträda först efter många timmar. Av denna anledning krävs läkarövervakning i minst 48 timmar efter ett olycksfall.

(Fortsättning på sida 3)

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(Fortsättning från sida 2)

Ta inte bort andningsskyddet förrän förorenade klädesplagg har avlägsnats.

Vid oregelbunden andning eller andningsstillestånd - ge konstgjord andning.

· Vid inandning:

Friskluft- eller syretillförsel; tillkalla läkarhjälp.

Vid medvetslöshet lägg och transportera patient stabilt i framstupa sidoläge.

- · Vid kontakt med huden: Tvätta omedelbart med vatten och tvål och spola därefter noggrant.
- · Vid kontakt med ögonen: Spola ögonen öppna i flera minuter under rinnande vatten och kontakta läkare.
- · Vid förtäring:

Kontakta läkare omedelbart.

Drick rikligt med vatten. Tillför frisk luft. Kontakta läkare omedelbart.

· 4.2 De viktigaste symptomen och effekterna, både akuta och fördröjda

Ingen ytterligare relevant information finns till förfogande.

• 4.3 Angivande av omedelbar medicinsk behandling och särskild behandling som eventuellt krävs Ingen ytterligare relevant information finns till förfogande.

AVSNITT 5: Brandbekämpningsåtgärder

- · 5.1 Släckmedel
- · Lämpliga släckningsmedel: Anpassa brandbekämpningsåtgärderna till omgivningen.
- \cdot 5.2 Särskilda faror som ämnet eller blandningen kan medföra

Ingen ytterligare relevant information finns till förfogande.

- · 5.3 Råd till brandbekämpningspersonal
- · Speciell skyddsutrustning: Använd andningsskyddsutrustning.

AVSNITT 6: Åtgärder vid oavsiktliga utsläpp

· 6.1 Personliga skyddsåtgärder, skyddsutrustning och åtgärder vid nödsituationer

Använd skyddsutrustning. Håll oskyddade personer på avstånd.

· 6.2 Miljöskyddsåtgärder:

När produkten kommit in i vattendrag eller avloppsnät, skall vederbörande myndigheter underrättas.

Blanda ut med mycket vatten.

Förhindra produkten att tränga ner i avloppsnät/ytvatten/grundvatten.

· 6.3 Metoder och material för inneslutning och sanering:

Sug upp med vätskebindande material (sand, kiselgur, syrabindemedel, universalbindemedel, sågspån). Använd neutraliseringsmedel.

Omhänderta förorenat material som avfall enligt punkt 13.

Se till att ventilationen är tillräcklig.

· 6.4 Hänvisning till andra avsnitt

Information beträffande säker hantering se kapitel 7.

Information beträffande personlig skyddsutrustning se kapitel 8.

Information beträffande avfallshantering se kapitel 13.

AVSNITT 7: Hantering och lagring

· 7.1 Försiktighetsmått för säker hantering

Sörj för god ventilation/utsug på arbetsplatsen.

Öppna behållaren försiktigt och hantera den varsamt.

Undvik bildning av aerosol.

· Hänvisningar beträffande brand- och explosionsskydd: Håll andningsskyddsutrustning i beredskap.

(Fortsättning på sida 4)

Säkerhetsdatablad enligt förordning (EG) nr. 1907/2006, Artikel 31

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Handelsnamn: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Fortsättning från sida 3)

- · 7.2 Förhållanden för säker lagring, inklusive eventuell oförenlighet
- · Lagring:
- · Krav på lagerutrymmen och behållare: Inga speciella krav.
- · Hänvisningar beträffande sammanlagring: Erfordras ej.
- · Ytterligare uppgifter till lagringsvillkoren: Förvara behållaren tätt tillsluten.
- · 7.3 Specifik slutanvändning Ingen ytterligare relevant information finns till förfogande.

AVSNITT 8: Begränsning av exponeringen/personligt skydd

- · Ytterligare hänvisningar beträffande utformning av tekniska anläggningar: Inga övriga uppgifter, se punkt 7.
- · 8.1 Kontrollparametrar
- ·Ämnen med yrkeshygieniska gränsvärden som bör övervakas:

111-30-8 Glutaraldehyd

OEL Korttidsvärde: 0,4 mg/m³, 0,1 ppm

- · Ytterligare hänvisningar: De vid framställningen gällande listorna har använts som utgångspunkt.
- · 8.2 Begränsning av exponeringen
- · Personlig skyddsutrustning:
- · Allmänna skydds- och hygienåtgärder:

Undvik kontakt med livsmedel, drycker och fodermedel.

Nedsmutsade, indränkta klädesplagg skall omedelbart tas av.

Tvätta händerna före raster och efter arbetet.

Skyddsdräkter förvaras separat.

Undvik kontakt med ögonen.

Undvik kontakt med ögonen och huden.

· Andningsskydd:

Vid kortvarig eller ringa belastning - använd andningsfilterutrustning; vid intensiv resp. längre exponering - använd andningsskyddsutrustning som är oberoende av omgivningsluften.

· Handskydd:



Skyddshandskar

Handskmaterialet måste vara tätt och beständigt mot produkt/ämne/tillredning.

Handskmaterialrekommendationer kan inte ges för produkt/tillredning/kemikalielösning, då inga tester genomförts.

Val av handskmaterial beaktande penetrationstider, permeationskvoter och degradation.

· Handskmaterial

Val av lämplig handske är inte enbart beroende av material utan även av andra kvalitetskriterier och varierar från en tillverkare till nästa. Då produkten bereds av flera material, kan handskmaterialets beständighet inte förutses och måste därför kontrolleras före användningen.

· Handskmaterialets penetreringstid

Exakt penetrationstid fastställs av skyddshandskarnas tillverkare och skall beaktas.

(Fortsättning på sida 5)

Säkerhetsdatablad enligt förordning (EG) nr. 1907/2006, Artikel 31

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Handelsnamn: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

· Ögonskydd:



(Fortsättning från sida 4)

9.1 Information om grundläggande fysika	liska och kemiska egenskaper	
Allmänna uppgifter		
Utseende:		
Form:	Vätska	
Färg:	Färglös	
Lukt:	Karakteristisk	
Lukttröskel:	Ej bestämd.	
pH-värde vid 20°C:	7,4	
Tillståndsändring		
Smältpunkt/fryspunkt:	Ej bestämd.	
Initial kokpunkt och kokpunktsintervall:	Ej bestämd.	
Flampunkt:	Ej användbar.	
Brandfarlighet (fast form, gas):	Ej användbar.	
Sönderfallstemperatur:	Ej bestämd.	
Självantändningstemperatur:	Produkten är ej självantändande.	
Explosiva egenskaper:	Produkten är ej explosiv.	
Explosionsgränser:		
Nedre:	Ej bestämd.	
Övre:	Ej bestämd.	
Ångtryck vid 20°C:	23 hPa	
Densitet vid 20 °C:	1,01 g/cm³	
Relativ densitet	Ej bestämd.	
Ångdensitet	Ej bestämd.	
Avdunstningshastighet:	Ej bestämd.	
Löslighet i / blandbarhet med		
Vatten:	Fullständigt blandbar.	
Fördelningskoefficient: n-oktanol/vatten:	Ej bestämd.	
Viskositet:		
Dynamisk:	Ej bestämd.	
Kinematisk:	Ej bestämd.	
Lösningsmedelhalt:		
Vatten:	94,9 %	
VOC (EG)	0,00 %	
Andel av fasta partiklar:	0,0 %	

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Säkerhetsdatablad enligt förordning (EG) nr. 1907/2006, Artikel 31

Datum för utskrift: 03.04.2020 Omarbetad: 03.04.2020

Handelsnamn: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Fortsättning från sida 5)

· 9.2 Annan information

Ingen ytterligare relevant information finns till förfogande.

AVSNITT 10: Stabilitet och reaktivitet

- · 10.1 Reaktivitet Ingen ytterligare relevant information finns till förfogande.
- · 10.2 Kemisk stabilitet
- · Termisk sönderdelning / förhållanden som bör undvikas: Inget sönderfall vid ändamålsenlig användning.
- · 10.3 Risken för farliga reaktioner Inga farliga reaktioner kända.
- · 10.4 Förhållanden som ska undvikas Ingen ytterligare relevant information finns till förfogande.
- · 10.5 Oförenliga material: Ingen ytterligare relevant information finns till förfogande.
- · 10.6 Farliga sönderdelningsprodukter: Inga farliga sönderfallsprodukter kända.

AVSNITT 11: Toxikologisk information

- · 11.1 Information om de toxikologiska effekterna
- · Akut toxicitet

Giftigt vid inandning.

· Klassificeringsrelevanta LD/LC50-värden:

111-30-8 Glutaraldehyd

 Oral
 LD50
 134 mg/kg (rat)

 Dermal
 LD50
 2.560 mg/kg (rabbit)

- · Primär retningseffekt:
- · Frätande/irriterande på huden

Orsakar allvarliga frätskador på hud och ögon.

· Allvarlig ögonskada/ögonirritation

Orsakar allvarliga ögonskador.

· Luftvägs-/hudsensibilisering

Kan orsaka allergi- eller astmasymtom eller andningssvårigheter vid inandning.

Kan orsaka allergisk hudreaktion.

- · CMR-effekter (cancerframkallande, mutagena och reproduktionstoxiska egenskaper)
- · Mutagenitet i könsceller

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

- · Cancerogenitet Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.
- · Reproduktionstoxicitet

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

· Specifik organtoxicitet - enstaka exponering

Kan orsaka irritation i luftvägarna.

· Specifik organtoxicitet - upprepad exponering

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

· Fara vid aspiration Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

AVSNITT 12: Ekologisk information

- · 12.1 Toxicitet
- · Akvatisk toxicitet: Ingen ytterligare relevant information finns till förfogande.
- · 12.2 Persistens och nedbrytbarhet Ingen ytterligare relevant information finns till förfogande.
- · 12.3 Bioackumuleringsförmåga Ingen ytterligare relevant information finns till förfogande.
- · 12.4 Rörlighet i jord Ingen ytterligare relevant information finns till förfogande.

(Fortsättning på sida 7)

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Säkerhetsdatablad enligt förordning (EG) nr. 1907/2006, Artikel 31

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Handelsnamn: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Fortsättning från sida 6)

- · Ekotoxiska effekter:
- · Kommentar:

Giftig för fisk.

Skadlig för fisk.

- · Ytterligare ekologiska hänvisningar:
- · Allmänna hänvisningar:

Vattenföroreningsklass 3 (Självutvärdering): stor risk för vattenförorening.

Låt ej tränga ner i grundvatten, vattendrag eller avloppsnätet, inte ens i små mängder.

Får ej hamna i avloppsvatten eller uppsamlingsdike i outspätt resp. oneutraliserat tillstånd.

Risk för förorening av dricksvattnet redan när mycket små mängder tränger ner i marken.

I vattendrag även giftig för fisk och plankton.

Giftig för vattenorganismer

Skadlig för vattenorganismer

- · 12.5 Resultat av PBT- och vPvB-bedömningen
- · PBT: Ej användbar.
- · vPvB: Ej användbar.
- · 12.6 Andra skadliga effekter Ingen ytterligare relevant information finns till förfogande.

AVSNITT 13: Avfallshantering

- · 13.1 Avfallsbehandlingsmetoder
- · Rekommendation: Får inte deponeras ihop med hushållsavfall. Får inte tömmas i avloppsnätet.
- · Ej rengjorda förpackningar:
- · **Rekommendation:** Avfallshanteras enligt myndigheters föreskrifter.
- · Rekommenderat rengöringsmedel: Vatten, eventuellt med tillsats av rengöringsmedel.

AVSNITT 14: Transportinformati	ion	
· 14.5 Miljöfaror:	Ej användbar.	
· 14.6 Särskilda skyddsåtgärder	Ej användbar.	
· 14.7 Bulktransport enligt bilaga II till Marpol 73/78 och IBC-koden Ej användbar.		
· UN ''Model Regulation'':	Utgår	

AVSNITT 15: Gällande föreskrifter

- · 15.1 Föreskrifter/lagstiftning om ämnet eller blandningen när det gäller säkerhet, hälsa och miljö
- · Direktiv 2012/18/EU
- · Namngivna farliga ämnen BILAGA I Inga beståndsdelar är listade.
- · Seveso-kategorier H2 AKUT TOXICITET
- · Tröskelvärden (i ton) för tillämpning av krav för lägre nivå 50 t
- · Tröskelvärden (i ton) för tillämpning av krav för övre nivå 200 t
- · Förordning (EG) nr 1907/2006 BILAGA XVII Villkor: 3
- · 15.2 Kemikaliesäkerhetsbedömning: En kemikaliesäkerhetsbedömning har ej gjorts.

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Säkerhetsdatablad enligt förordning (EG) nr. 1907/2006, Artikel 31

Datum för utskrift: 03.04.2020 Omarbetad: 03.04.2020

Handelsnamn: Glutaraldehyde 5% in 0.1M Phosphate Buffer, pH 7.4

(Fortsättning från sida 7)

AVSNITT 16: Annan information

Uppgifterna är baserade på våra aktuella kunskaper. De representerar emellertid ingen som helst garanti beträffande produktegenskaper och utgör ingen grund för ett avtalat rättsförhållande.

· Relevanta fraser

H301 Giftigt vid förtäring.

H314 Orsakar allvarliga frätskador på hud och ögon.

H317 Kan orsaka allergisk hudreaktion.

H330 Dödligt vid inandning.

H334 Kan orsaka allergi- eller astmasymtom eller andningssvårigheter vid inandning.

H335 Kan orsaka irritation i luftvägarna.

H400 Mycket giftigt för vattenlevande organismer.

H411 Giftigt för vattenlevande organismer med långtidseffekter.

· Förkortningar och akronymer:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Akut toxicitet - oral - Kategori 3

Acute Tox. 2: Akut toxicitet - inhalation - Kategori 2

Skin Corr. 1B: Frätande eller irriterande på huden – Kategori 1B

Eye Dam. 1: Allvarlig ögonskada eller ögonirritation – Kategori 1

Resp. Sens. 1: Luftvägssensibilisering – Kategori 1

Skin Sens. 1: Hudsensibilisering – Kategori 1

Skin Sens. 1A: Hudsensibilisering - Kategori 1A

STOT SE 3: Specifik organtoxicitet (enstaka exponering) – Kategori 3

Aquatic Acute 1: Farligt för vattenmiljön - akut fara – Kategori 1

Aquatic Chronic 2: Farligt för vattenmiljön - fara för skadliga långtidseffekter – Kategori 2

Aquatic Chronic 3: Farligt för vattenmiljön - fara för skadliga långtidseffekter – Kategori 3

SE