

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** 

## **thermosept® ED**    *No Change Service!*

Version  
05.02

Revision Date:  
19.09.2022

Date of last issue: 05.10.2021

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

#### **1.1 Product identifier**

Trade name : thermosept® ED  
Unique Formula Identifier (UFI) : GY00-R0DY-3009-3A7T

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

Use of the Substance/Mixture : Disinfectants  
  
Recommended restrictions on use : Restricted to professional users.

#### **1.3 Details of the supplier of the safety data sheet**

Producer : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
  
22851 Norderstedt  
Germany  
Telephone: +49 (0)40/ 52100-0  
Telefax: +49 (0)40/ 52100318  
mail@schuelke.com  
www.schuelke.com  
  
Supplier : Premiere Healthcare  
No. 31, Fort Street,  
  
Mellieħa, MLH 1519  
Malta  
Telephone: +356 270 10276  
premierehealthcare1@gmail.com  
  
E-mail address of person responsible for the SDS/Contact person : Application Specialists  
+49 (0)40/ 521 00 666  
AD@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)

#### **1.4 Emergency telephone number**

Emergency telephone number : Carechem 24 International: +44 1235 239670

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### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

##### **Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4 : H302: Harmful if swallowed.  
  
Acute toxicity, Category 4 : H332: Harmful if inhaled.

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Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 + H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH071 Corrosive to the respiratory tract.
Precautionary statements	:	<b>Prevention:</b> P261 Avoid breathing vapours. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. <b>Response:</b> P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 + P310 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.

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### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazardous components which must be listed on the label:

glutaral

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
glutaral	111-30-8 203-856-5 605-022-00-X 01-2119455549-26-XXXX	Acute Tox. 3; H301 Acute Tox. 2; H330 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 2; H411 EUH071  M-Factor (Acute aquatic toxicity): 1  specific concentration limit STOT SE 3; H335 0.5 - < 5 %	>= 20 - < 25

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		Acute toxicity estimate  Acute oral toxicity: 77 mg/kg Acute inhalation toxicity (dust/mist): 0.28 mg/l	
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 1 - < 10
pentasodium (carboxylatome-thyl)iminobis(ethylenenitrilo)tetraacetate	140-01-2 205-391-3 607-736-00-7 01-2119474445-33-XXXX	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT RE 2; H373 (Respiratory system)  Acute toxicity estimate  Acute inhalation toxicity (dust/mist): 1 - 5 mg/l	>= 0.1 - < 1

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Move the victim to fresh air and keep him calm.  
No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
Consult a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Obtain medical attention.
- If swallowed : Do NOT induce vomiting.  
Rinse mouth with water.  
Give small amounts of water to drink.  
Obtain medical attention.

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### **4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : Treat symptomatically.
- Risks : Harmful if swallowed or if inhaled.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.  
Corrosive to the respiratory tract.  
Causes severe burns.

### **4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : For specialist advice physicians should contact the Poisons Information Service.
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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

- Suitable extinguishing media : Dry powder  
Foam  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : Do NOT use water jet.

### **5.2 Special hazards arising from the substance or mixture**

- Specific hazards during fire-fighting : No information available.
- Hazardous combustion products : No hazardous combustion products are known

### **5.3 Advice for firefighters**

- Special protective equipment : In the event of fire, wear self-contained breathing apparatus for firefighters
- 

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Ensure adequate ventilation.  
Use personal protective equipment.

### **6.2 Environmental precautions**

- Environmental precautions : Do not flush into surface water.
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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 6.4 Reference to other sections

see Section 8 + 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).  
Use only with adequate ventilation/personal protection.

Advice on protection against fire and explosion : No special protective measures against fire required.

Hygiene measures : Take off all contaminated clothing immediately. Keep away from food and drink.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

Further information on storage conditions : Keep away from direct sunlight. Keep away from heat. Keep container tightly closed. Recommended storage temperature: 5 - 25°C

Advice on common storage : Do not store together with explosives, oxidizing agents, organic peroxides and infectious products.

### 7.3 Specific end use(s)

Specific use(s) : none

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
glutaral	Workers	Inhalation	Long-term local effects	0.0106 mg/m <sup>3</sup>
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Workers	Inhalation	Long-term systemic effects	950 mg/m <sup>3</sup>

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pentasodium (carboxylatome-thyl)iminobis(ethylene nitrilo)tetraacetate	Workers	Inhalation	Acute local effects	3 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	1.5 mg/m <sup>3</sup>

### **Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
glutaral	Fresh water	0.0025 mg/l
	Marine water	0.00025 mg/l
	Fresh water sediment	0.091 mg/kg
	Marine sediment	0.009 mg/kg
	Soil	0.18 mg/kg
	Effects on waste water treatment plants	0.8 mg/l
ethanol	Intermittent use/release	0.006 mg/l
	Fresh water	0.96 mg/l
	Marine water	0.79 mg/l
	Fresh water sediment	3.6 mg/kg
	Soil	0.63 mg/kg
	Marine sediment	2.9 mg/kg
pentasodium (carboxylatome-thyl)iminobis(ethylenenitrilo)tetra acetate	Sewage treatment plant	580 mg/l
	Fresh water	6.4 mg/l
	Marine water	0.64 mg/l
	Intermittent use/release	3.1 mg/l
	Sewage treatment plant	51 mg/l
	Fresh water sediment	23 mg/kg
Marine sediment	2.3 mg/kg	
Soil	0.853 mg/kg	

## 8.2 Exposure controls

### **Personal protective equipment**

Eye/face protection : Face-shield

### Hand protection

Directive : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Remarks : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Skin and body protection : Work uniform or laboratory coat.

Respiratory protection : Not required; except in case of aerosol formation.





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Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Does not sustain combustion.
Sustained combustibility	:	Sustains combustibility: no
Self-ignition	:	not determined
Metal corrosion rate	:	Not corrosive to metals
Evaporation rate	:	No data available

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## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2 Chemical stability**

The product is chemically stable.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions : None reasonably foreseeable.

### **10.4 Conditions to avoid**

Conditions to avoid : Protect from frost, heat and sunlight.

### **10.5 Incompatible materials**

Materials to avoid : Strong bases  
Strong acids and oxidizing agents  
Amines  
Ammonia

### **10.6 Hazardous decomposition products**

None reasonably foreseeable.

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## **SECTION 11: Toxicological information**

### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### **Acute toxicity**

Harmful if swallowed or if inhaled.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: 385 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 1.4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

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### Components:

#### **glutaral:**

Acute oral toxicity	:	LD50 (Rat): 77 mg/kg Assessment: Toxic if swallowed.  Acute toxicity estimate: 77 mg/kg Method: Calculation method
Acute inhalation toxicity	:	LC50 (Rat): 0.28 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403  Acute toxicity estimate: 0.28 mg/l Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg

#### **ethanol:**

Acute oral toxicity	:	LD50 (Mouse): 8,300 mg/kg
Acute inhalation toxicity	:	LC50 (Mouse): 39 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): 20,000 mg/kg

#### **pentasodium (carboxylatomethyl)iminobis(ethylenitrilo)tetraacetate:**

Acute oral toxicity	:	LD50 (Rat): ca. 4,550 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: 1 - 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: The toxicological data has been taken from products of similar composition.

### **Skin corrosion/irritation**

Causes severe burns.

### Components:

#### **glutaral:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive

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### **ethanol:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate:**

Result : Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Components:**

#### **glutaral:**

Species : Rabbit  
Method : Draize Test  
Result : Corrosive

### **ethanol:**

Method : OECD Test Guideline 405  
Result : Eye irritation

### **pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate:**

Result : Eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

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

### **Components:**

#### **glutaral:**

Test Type : Open epicutaneous test  
Exposure routes : Dermal  
Species : Guinea pig  
Result : Causes sensitisation.

Exposure routes : Inhalation  
Species : Humans  
Result : Causes sensitisation.

### **ethanol:**

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

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### **pentasodium (carboxylatomethyl)iminobis(ethylenitrilo)tetraacetate:**

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **glutaral:**

Genotoxicity in vitro : Result: Conflicting results have been seen in different studies.  
Germ cell mutagenicity- Assessment : Did not show mutagenic effects in animal experiments.

#### **ethanol:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: Not mutagenic in Ames Test  
Genotoxicity in vivo : Result: Non mutagenic  
Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **pentasodium (carboxylatomethyl)iminobis(ethylenitrilo)tetraacetate:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: In vitro tests did not show mutagenic effects

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **glutaral:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

#### **ethanol:**

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

### **Reproductive toxicity**

Not classified based on available information.

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### Components:

#### **glutaral:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

#### **ethanol:**

Effects on foetal development : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 2,000 mg/kg body weight

Reproductive toxicity - Assessment : Animal experiments showed mutagenic and teratogenic effects.

#### **pentasodium (carboxylatomethyl)iminobis(ethylenitrilo)tetraacetate:**

Effects on foetal development : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 400 mg/kg bw/day  
Teratogenicity: NOAEL: 100 mg/kg bw/day  
Method: OECD Test Guideline 414  
GLP: yes

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

#### **STOT - single exposure**

May cause respiratory irritation.  
Corrosive to the respiratory tract.

#### Product:

Remarks : May cause respiratory irritation.

### Components:

#### **glutaral:**

Remarks : No data available

#### **ethanol:**

Remarks : No data available

#### **STOT - repeated exposure**

Not classified based on available information.

### Components:

#### **glutaral:**

Exposure routes : Inhalation  
Target Organs : Upper respiratory tract

#### **ethanol:**

Remarks : No data available

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### **pentasodium (carboxylatomethyl)iminobis(ethylenitrilo)tetraacetate:**

Exposure routes : Inhalation  
Target Organs : Respiratory system  
Assessment : May cause damage to organs through prolonged or repeated exposure.

### **Repeated dose toxicity**

#### **Components:**

#### **glutaral:**

Remarks : No adverse effect has been observed in chronic toxicity tests.

#### **ethanol:**

Species : Rat  
NOAEL : 1,730 mg/kg  
LOAEL : 3,160 mg/kg  
Application Route : Oral  
Exposure time : 90 d

### **Aspiration toxicity**

Not classified based on available information.

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Further information**

#### **Product:**

Remarks : No data is available on the product itself.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Product:**

Toxicity to microorganisms : EC50 : 217 mg/l  
Method: OECD 209

#### **Components:**

#### **glutaral:**

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Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 9.4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 5.75 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 0.6 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201  NOEC (Desmodesmus subspicatus (green algae)): 0.025 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	NOEC: 1.6 mg/l Exposure time: 97 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 2.5 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

### **ethanol:**

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l Exposure time: 48 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 5,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l Exposure time: 72 h

### **pentasodium (carboxylatomethyl)iminobis(ethylenitrilo)tetraacetate:**

Toxicity to fish	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 245 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	NOEC (Scenedesmus quadricauda (Green algae)): 400 mg/l Exposure time: 23 d Test Type: static test Remarks: Based on data from similar materials

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Toxicity to fish (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 28 d  
Species: Fish  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 67 mg/l  
Exposure time: 18 d  
Species: Daphnia (water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Result: Readily biodegradable.  
Method: OECD 301D / EEC 84/449 C6

#### Components:

##### **glutaral:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90 - 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A

Stability in water : pH: 7  
Hydrolysis: at 50 °C(> 1 yr)  
Remarks: Hydrolyses slowly on contact with water.

##### **ethanol:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 5 d  
Method: OECD 301D / EEC 84/449 C6

##### **pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Not readily eliminated from water.  
Based on data from similar materials

### 12.3 Bioaccumulative potential

#### Components:

##### **glutaral:**

Bioaccumulation : Remarks: Does not bioaccumulate.  
Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: ca. -0.36 (23 °C)  
pH: 7



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Method: Directive 92/69/EEC, A.8

### **ethanol:**



Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -0.14  
Method: Calculated value

## 12.4 Mobility in soil

### Components:

#### **glutaral:**



Mobility : Remarks: Mobile in soils

#### **ethanol:**



Mobility : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological information : No data is available on the product itself.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of the product according to the defined EWC (European Waste Code) No.

Contaminated packaging : Take empty packaging to the recycling plant.

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Waste key for the unused product : European waste catalog (EWC) 070601\*  
Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

## SECTION 14: Transport information

### 14.1 UN number or ID number

**ADR** : UN 1903  
**IMDG** : UN 1903  
**IATA** : UN 1903

### 14.2 UN proper shipping name

**ADR** : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (glutaral)  
**IMDG** : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (glutaral)  
**IATA** : Disinfectant, liquid, corrosive, n.o.s. (glutaral)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADR</b>	: 8	
<b>IMDG</b>	: 8	
<b>IATA</b>	: 8	

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : C9  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

**IMDG**  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 856  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 852  
Packing instruction (LQ) : Y841

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Packing group                   : III  
Labels                            : Corrosive

### 14.5 Environmental hazards

#### **ADR**

Environmentally hazardous   : no

#### **IMDG**

Marine pollutant               : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)                   : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).                   : glutaral

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer                   : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)                   : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals                   : Not applicable

REACH - List of substances subject to authorisation (Annex XIV)                   : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.                   : Not applicable

Volatile organic compounds   : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 4.66 %

#### **Other regulations:**

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This information is not available.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### **The components of this product are reported in the following inventories:**

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIRC	:	All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

## **15.2 Chemical safety assessment**

Exempt

## **SECTION 16: Other information**

### **Full text of H-Statements**

H225	:	Highly flammable liquid and vapour.
H301	:	Toxic if swallowed.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H332	:	Harmful if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	:	May cause respiratory irritation.
H361d	:	Suspected of damaging the unborn child.
H373	:	May cause damage to organs through prolonged or repeated exposure if inhaled.
H400	:	Very toxic to aquatic life.
H411	:	Toxic to aquatic life with long lasting effects.
EUH071	:	Corrosive to the respiratory tract.

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### **Full text of other abbreviations**

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Repr.	:	Reproductive toxicity
Resp. Sens.	:	Respiratory sensitisation
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### **Further information**

#### **Classification of the mixture:**

Acute Tox. 4	H302
Acute Tox. 4	H332
Skin Corr. 1B	H314

#### **Classification procedure:**

Calculation method
Calculation method
Calculation method

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Eye Dam. 1	H318	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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