

Trade name: Konservierungsmittel-Mischung / F. Hunziker

Substance number: 330140

Version: 1 / CH

Date revised: 17.11.2022

Replaces Version: - / CH

Print date: 17.11.22

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

### **1.1. Product identifier**

Konservierungsmittel-Mischung / F. Hunziker

Item No. 33014000

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

#### **Use of the substance/preparation**

Preservative

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

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

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

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification**

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

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

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

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard statements**

H412

Harmful to aquatic life with long lasting effects.

##### **Precautionary statements**

P273

Avoid release to the environment.

P501.3

Disposal in compliance with local and national regulations.

## **SECTION 3: Composition/information on ingredients**

### **Hazardous ingredients**

#### **methyl 4-hydroxybenzoate**

CAS No. 99-76-3

EINECS no. 202-785-7

Registration no. 01-2119463264-40-0003

Concentration &gt;= 10 &lt; 25 %

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

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**Further ingredients****Propane-1,2-diol**

CAS No.	57-55-6			
EINECS no.	200-338-0			
Registration no.	01-2119456809-23			
Concentration		>=	50	%
Advice: [4]				

**4-hydroxybenzoic acid propyl ester**

CAS No.	94-13-3					
EINECS no.	202-307-7					
Registration no.	01-2119969462-29					
Concentration		>=	1	<	10	%
Advice: [4]						

**Note**

[4] Voluntary information

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. In all cases of doubt, or when symptoms persist, seek medical attention.

**After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Remove contact lenses. Take medical treatment.

**After ingestion**

Do not induce vomiting. Never give anything by mouth to an unconscious person. If individual is drowsy or unconscious place in recovery position (on left side, with head down). Summon a doctor immediately. If swallowed, rinse mouth with water (only if the person is conscious).

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

Irritation of respiratory organs, CNS Disturbance, Irritation of mucosa

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam. Extinguishing measures to suit surroundings

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

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

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Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases. Use personal protective clothing.

**Other information**

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use breathing apparatus if exposed to vapours/dust/aerosol. Use personal protective clothing. Ensure adequate ventilation. Keep away unprotected persons.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways. Advise water authority if spillage has entered water course or drainage system.

**6.3. Methods and material for containment and cleaning up**

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal.

**6.4. Reference to other sections**

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Handle and open container with care.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value	8	15	°C
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**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place.

**Storage classes**

Storage class according to TRGS 510	10	Flammable liquids
Storage category (Switzerland)	10/12	Other liquid hazardous substances

**Further information on storage conditions**

Protect from heat and direct sunlight.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Derived No/Minimal Effect Levels (DNEL/DMEL)****Propane-1,2-diol**

Type of value	Derived No Effect Level (DNEL)
Reference group	General Population
Duration of exposure	Long term
Route of exposure	inhalative

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Mode of action	Systemic effects	
Concentration	50	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Concentration	168	mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC)

#### Propane-1,2-diol

Type of value	PNEC	
Type	Soil	
Concentration	50	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	26	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	20000	mg/l
Type of value	PNEC	
Type	Freshwater	
Concentration	260	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	57.2	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	572	mg/kg

## 8.2. Exposure controls

### General protective and hygiene measures

Observe the usual precautions for handling chemicals.

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. combination filter A-P2

### Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	nitrile rubber - NBR
Material thickness	0.11
Breakthrough time	480 min
Hand protection must comply with EN 374.	

### Eye protection

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

### Body protection

Protective clothing

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## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid, clear
<b>Colour</b>	colourless
<b>pH value</b>	
Remarks	not determined
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Remarks	not determined
<b>Flash point</b>	
Value	appr. 98.9 °C
<b>Vapour pressure</b>	
Value	appr. 0.07 hPa
<b>Vapour density</b>	
Remarks	not determined
<b>Density</b>	
Value	1.062 to 1.072 g/ml
Temperature	20 °C
Remarks	Relative Density according specification
<b>Solubility in water</b>	
Remarks	not determined

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

### **10.1. Reactivity**

Violent reaction under influence of oxidising agents.

### **10.2. Chemical stability**

No decomposition if stored and applied as directed.

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

Possible incompatibility with materials listed under section 10.5.

### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat. Heat. Flames. Sparks. Protect from sun.

### **10.5. Incompatible materials**

Incompatible with: Strong oxidising agents

### **10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide, Toxic gases/vapours

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity (Components)**

4-hydroxybenzoic acid propyl ester

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Species rat  
LD50 > 5000 mg/kg

**methyl 4-hydroxybenzoate**

Species rat  
LD50 2100 mg/kg  
Method OECD 401

**methyl 4-hydroxybenzoate**

Species guinea pig  
LD50 3000 mg/kg

**methyl 4-hydroxybenzoate**

Species rabbit  
LC50 6000 mg/kg

**Propane-1,2-diol**

Species rat  
LD50 20000 mg/kg

**Propane-1,2-diol**

Species rat  
LD50 6660 mg/kg  
Remarks intraperitoneal

**Propane-1,2-diol**

Species mouse  
LD50 9718 mg/kg  
Remarks intraperitoneal

**Propane-1,2-diol**

Species rat  
LD50 22000 mg/kg  
Method OECD 401

**Acute dermal toxicity (Components)****Propane-1,2-diol**

Species rabbit  
LD50 20800 mg/kg

**Propane-1,2-diol**

Species rabbit  
LD50 > 2000 mg/kg  
Duration of exposure 24 h  
Method OECD 402

**Acute inhalative toxicity (Components)****Propane-1,2-diol**

Species rabbit  
LC50 317042 mg/m<sup>3</sup>  
Duration of exposure 2 h  
Method OECD 403

**Skin corrosion/irritation (Components)****methyl 4-hydroxybenzoate**

Species rabbit  
Duration of exposure 24 h  
Observation Period 72 h  
evaluation Moderately irritating  
Method Draize method

**Propane-1,2-diol**

Duration of exposure 7 d  
evaluation slightly irritant

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**Serious eye damage/irritation (Components)****methyl 4-hydroxybenzoate**

Species	rabbit
Observation Period	48 h
evaluation	Moderately irritating
Method	Draize method

**Propane-1,2-diol**

Species	rabbit
evaluation	slightly irritant

**Sensitization (Components)****4-hydroxybenzoic acid propyl ester**

Route of exposure	dermal
Species	mouse
evaluation	non-sensitizing
Method	OECD 429

**methyl 4-hydroxybenzoate**

Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406

**Propane-1,2-diol**

Remarks	No data available.
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**Subacute, subchronic, chronic toxicity (Components)****4-hydroxybenzoic acid propyl ester**

Sub-chronic toxicity			
Route of exposure	oral		
Species	rat		
NOAEL	980		mg/kg
Duration of exposure	4	Weeks	

**methyl 4-hydroxybenzoate**

Species	rat		
NOAEL	>= 250		mg/kg
Duration of exposure	28	d	

**Propane-1,2-diol**

Remarks	No data available.
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**Mutagenicity (Components)****4-hydroxybenzoic acid propyl ester**

evaluation	No mutagenicity according to various in vitro tests.
Method	OECD 471

**methyl 4-hydroxybenzoate**

evaluation	No mutagenicity according to various in vitro tests.
Method	OECD 471

**Propane-1,2-diol**

Remarks	No data available.
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**Reproduction toxicity (Components)****Propane-1,2-diol**

Remarks	No data available.
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**Carcinogenicity (Components)****Propane-1,2-diol**

Remarks	No data available.
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**Specific Target Organ Toxicity (STOT) (Components)**

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**Propane-1,2-diol**

Remarks Not applicable

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****4-hydroxybenzoic acid propyl ester**

Species	zebra fish ( <i>Brachydanio rerio</i> )	
LC50	6.4	mg/l
Duration of exposure	96	h

**methyl 4-hydroxybenzoate**

Species	golden orfe ( <i>Leuciscus idus</i> )	
NOEC	50	mg/l
Duration of exposure	48	h

**methyl 4-hydroxybenzoate**

Species	<i>Oryzias latipes</i>	
LC50	59.5	mg/l
Duration of exposure	96	h
Method	OECD 203	

**Propane-1,2-diol**

Species	Fathead minnow ( <i>Pimephales promelas</i> )	
NOEC	52930	mg/l
Duration of exposure	96	h

**Propane-1,2-diol**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )	
LC50	40613	mg/l
Duration of exposure	96	h

**Daphnia toxicity (Components)****4-hydroxybenzoic acid propyl ester**

Species	<i>Daphnia magna</i>	
EC50	15.4	mg/l
Duration of exposure	48	h
Method	ISO 6341	

**methyl 4-hydroxybenzoate**

Species	<i>Daphnia magna</i>	
NOEC	0.2	mg/l
Duration of exposure	21	d
Method	OECD 211	
Source	Manufacturer's data	

**methyl 4-hydroxybenzoate**

Species	<i>Daphnia magna</i>	
EC50	11.2	mg/l
Duration of exposure	48	h

**Propane-1,2-diol**

Species	<i>Daphnia</i>	
NOEC	13020	mg/l

**Propane-1,2-diol**

Species	<i>Daphnia magna</i>	
EC50	> 10000	mg/l
Duration of exposure	48	h

**Propane-1,2-diol**



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Species	Ceriodaphnia dubia	
LC50	18340	mg/l
Duration of exposure	48	h
Method	static test	
Source	EPA 600/489/001	

**Algae toxicity (Components)****4-hydroxybenzoic acid propyl ester**

Species	Pseudokirchneriella subcapitata	
EC50	15	mg/l
Duration of exposure	72	h
Method	ISO 8692	

**4-hydroxybenzoic acid propyl ester**

Species	Pseudokirchneriella subcapitata	
NOEC	2.1	mg/l
Duration of exposure	72	h
Method	OECD 201	

**4-hydroxybenzoic acid propyl ester**

Species	Pseudokirchneriella subcapitata	
EC50	16	mg/l
Duration of exposure	72	h
Method	OECD 201	

**methyl 4-hydroxybenzoate**

Species	Desmodesmus subspicatus	
EC50	91	mg/l
Duration of exposure	72	h

**methyl 4-hydroxybenzoate**

NOEC	17	mg/l
Duration of exposure	72	h
Method	OECD 201	

**Propane-1,2-diol**

Species	Pseudokirchneriella subcapitata	
EC50	19000	mg/l
Duration of exposure	96	h
Method	OECD 201	

**Bacteria toxicity (Components)****methyl 4-hydroxybenzoate**

Species	Pseudomonas fluorescens	
EC0	500	mg/l

**Propane-1,2-diol**

Remarks No data available.

**12.2. Persistence and degradability****Physico-chemical eliminability (Components)****Propane-1,2-diol**

Remarks No data available.

**Biodegradability (Components)****4-hydroxybenzoic acid propyl ester**

Value	91.5	%
Duration of test evaluation	28	d
Method	Readily biodegradable	
	OECD 301F	

**methyl 4-hydroxybenzoate**

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Value	92.2	%
Duration of test evaluation	28 d	
Method	Readily biodegradable OECD 301F	

**methyl 4-hydroxybenzoate**

Value	89	%
Duration of test evaluation	28 d	
Method	Readily biodegradable OECD 301 B	

**Propane-1,2-diol**

Remarks The product is biodegradable.

**Ready degradability (Components)****Propane-1,2-diol**

Remarks No data available.

**12.3. Bioaccumulative potential****Octanol/water partition coefficient (log Pow) (Components)****4-hydroxybenzoic acid propyl ester**

log Pow 2.8

**methyl 4-hydroxybenzoate**

log Pow 1.98

**12.4. Mobility in soil****Mobility in soil (Components)****4-hydroxybenzoic acid propyl ester**

Highly mobile in soils

**methyl 4-hydroxybenzoate**

Highly mobile in soils

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Disposal in compliance with local and national regulations.

**SECTION 14: Transport information**

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	-		
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		

## **SECTION 15: Regulatory information**

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

#### **Water Hazard Class (Germany)**

Water Hazard Class (Germany)      WGK 1

Remarks      Derivation of WGK according to Annex 1 No. 5.2 AwSV

## **SECTION 16: Other information**

#### **Hazard statements listed in Chapter 3**

H411      Toxic to aquatic life with long lasting effects.

#### **CLP categories listed in Chapter 3**

Aquatic Chronic 2      Hazardous to the aquatic environment, chronic, Category 2

#### **Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.