according to Regulation (EC) No 1907/2006

## Prüfflüssigkeit gemäß GS-97034-12

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

## 1.1. Product identifier

Prüfflüssigkeit gemäß GS-97034-12

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

## Use of the substance/mixture

The product is intended for research, analysis and scientific education.

## Uses advised against

Any non-intended use.

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

Company name:	Thierry GmbH	
Street:	Motorstrasse 30	
Place:	D-70499 Stuttgart	
Telephone:	+49 (0)711 8399 7470	Telefax:+49 (0)711 8399 7480
e-mail:	info@thierry-gmbh.de	
Contact person:	Veronika Krieger	Telephone:0711/839974-0
Internet:	www.thierry-gmbh.de	
Responsible Department:	Dr. Gans-Eichler	e-mail: info@tge-consult.de
	Chemieberatung GmbH	Tel.: +49(0)2534 6441185
	Otto-Hahn-Str. 36	www.tge-consult.de
	D-48161 Münster	
<u>1.4. Emergency telephone</u> number:	Emergency medical informat (6131) 19240	tion: Poison Information Center Mainz - Tel: +49

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

## 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

## 2.2. Label elements

Regulation (EC) No. 1272/2008

### Special labelling of certain mixtures

EUH208Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an<br/>allergic reaction.EUH210Safety data sheet available on request.

## 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

## 3.2. Mixtures

## Hazardous components

CAS No	Chemical name			Quantity		
	EC No	Index No	Index No REACH No			
	GHS Classification					
64-17-5	ethanol, ethyl alcohol					
	200-578-6	603-002-00-5	01-2119457610-43			
	Flam. Liq. 2, Eye Irrit. 2; H225 H319					
111-46-6	2,2'-oxybisethanol; diethy	lene glycol		< 1,25 %		

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	203-872-2	603-140-00-6	01-2119457857-21				
	Acute Tox. 4; H302						
111-76-2	2-butoxyethanol; ethyle	< 1, 25 %					
	203-905-0	603-014-00-0	01-2119475108-36				
	Acute Tox. 3, Acute Tox						

Full text of H and EUH statements: see section 16.

## Specific concentration limits and M-factors

CAS No	EC No	EC No Chemical name			
	Specific concentration limits and M-factors				
64-17-5	200-578-6 ethanol, ethyl alcohol		7 - < 10 %		
	Eye Irrit. 2; H319: >= 50 - 100				

### **Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

#### Unsuitable extinguishing media

High power water jet.

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

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

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

Safe handling: see section 7

Personal protection equipment: see section 8

## 6.2. Environmental precautions

Discharge into the environment must be avoided.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

Disposal: see section 13

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

### Advice on safe handling

Wear suitable protective clothing. (See section 8.)

## Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Further information on handling

General protection and hygiene measures: refer to chapter 8

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

### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff

### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 20°C Protect against: frost. UV-radiation/sunlight. heat. Humidity

### 7.3. Specific end use(s)

See section 1.

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
111-46-6	2,2'-Oxydiethanol	23	101		TWA (8 h)	WEL
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

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## **Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol		Post shift

## **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64-17-5	ethanol, ethyl alcohol			
Worker DNEL	, acute	inhalation	local	1900 mg/m³
Worker DNEL	, long-term	dermal	systemic	343 mg/kg bw/day
Worker DNEL	, long-term	inhalation	systemic	950 mg/m³
Consumer DN	EL, acute	inhalation	local	950 mg/m³
Consumer DN	EL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	114 mg/m <sup>3</sup>
Consumer DN	EL, long-term	oral	systemic	87 mg/kg bw/day
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl	cellosolve		
Worker DNEL	, long-term	inhalation	systemic	98 mg/m³
Worker DNEL	, acute	inhalation	systemic	1091 mg/m <sup>3</sup>
Worker DNEL	, acute	inhalation	local	246 mg/m <sup>3</sup>
Worker DNEL	, long-term	dermal	systemic	125 mg/kg bw/day
Worker DNEL	, acute	dermal	systemic	89 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	6,3 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	26,7 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	59 mg/m³
Consumer DN	EL, acute	inhalation	systemic	426 mg/m <sup>3</sup>
Consumer DN	EL, acute	inhalation	local	147 mg/m <sup>3</sup>
Consumer DN	EL, long-term	dermal	systemic	75 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	89 mg/kg bw/day

# **PNEC** values

CAS No	Substance				
Environmenta	al compartment	Value			
64-17-5	ethanol, ethyl alcohol				
Freshwater		0,96 mg/l			
Freshwater (i	intermittent releases)	2,75 mg/l			
Marine water		0,79 mg/l			
Marine water (intermittent releases)		2,75 mg/l			
Freshwater s	ediment	3,6 mg/kg			
Marine sedim	nent	2,9 mg/kg			
Secondary poisoning		0,72 mg/kg			
Micro-organisms in sewage treatment plants (STP)		580 mg/l			
Soil		0,63 mg/kg			

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111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve					
Freshwater		8,8 mg/l				
Freshwater (i	Freshwater (intermittent releases)					
Marine water		0,88 mg/l				
Freshwater s	ediment	34,6 mg/kg				
Marine sedim	nent	3,46 mg/kg				
Secondary po	pisoning	0,02 mg/kg				
Micro-organisms in sewage treatment plants (STP)		463 mg/l				
Soil		2,33 mg/kg				

## 8.2. Exposure controls



## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

### Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

## Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

## Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. Suitable material: FKM (fluororubber). - Thickness of glove material: 0,4 mm Breakthrough time >= 8 h Butyl rubber. - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm Breakthrough time >= 8 h PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm Breakthrough time  $\geq 8$  h The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it. Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

### Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

## **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

#### Environmental exposure controls

No special precautionary measures are necessary.

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

## 9.1. Information on basic physical and chemical properties

Physical state:	liquid		
Colour:	not determined		
Odour:	characteristic		
			Test method
pH-Value:		not determined	
Changes in the physical state			
Melting point:		not determined	
Initial boiling point and boiling range:		not determined	
Sublimation point:		not determined	
Softening point:		not determined	
Pour point:		not determined	
Flash point:			estimated
Sustaining combustion:		Not sustaining combustion	estimated
Explosive properties none			
Lower explosion limits:		3,5 (Ethanol.) vol. %	
Upper explosion limits:		15 (Ethanol.) vol. %	
Ignition temperature:		not determined	
Auto-ignition temperature Gas:		not determined	
Decomposition temperature:		not determined	
Oxidizing properties none			
Vapour pressure:		not determined	
Density:		0,9 - 1,0 g/cm³	estimated
Water solubility:		not determined	
Solubility in other solvents not determined			
Partition coefficient:		not determined	
Viscosity / dynamic:		not determined	
Viscosity / kinematic:		not determined	
Flow time:		not determined	
Vapour density:		not determined	
Evaporation rate:		not determined	
Solvent separation test:		not determined	
Solvent content:		>80 % Water.	
9.2. Other information			
Solid content:		not determined	

# SECTION 10: Stability and reactivity

according to Regulation (EC) No 1907/2006

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## 10.1. Reactivity

No information available.

## 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

## 10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

## 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

## 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

## Toxicocinetics, metabolism and distribution

No data available.

## Acute toxicity

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

CAS No	Chemical name	Chemical name							
	Exposure route	Dose		Species	Source	Method			
64-17-5	ethanol, ethyl alcohol								
	oral	LD50 mg/kg	>5000	Rat	ECHA dossier				
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	ECHA dossier				
111-46-6	2,2'-oxybisethanol; dieth	ylene glycol							
	oral	LD50 mg/kg	1490	Practical experience/human experience.	O'Brien et al., 1998				
	dermal	LD50 mg/kg	11890	Rabbit					
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve								
	oral	LD50 1414 mg/kg	1200 –	Guinea-pig.	ECHA Dossier/RAC	OECD Guideline 401			
	dermal	LD50 mg/kg	=< 2000	Rabbit/Guinea-pig.	ECHA Dossier/RAC	OECD Guideline 402			
	inhalation (4 h) vapour	LC50	3 mg/l	Rat. (2.21 – 4.92 mg/L)	ECHA Dossier/RAC	OECD Guideline 403			
	inhalation aerosol	ATE	0,5 mg/l						

## Irritation and corrosivity

Based on available data, the classification criteria are not met. Irritant effect on the skin: slightly irritant but not relevant for classification. Ethanol.: Specific concentration limit (SCL): Eye Irrit. 2 > 50%

## Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

## Carcinogenic/mutagenic/toxic effects for reproduction

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

Ethanol. (CAS-No.: 64-17-5):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist. Reproductive toxicity: Exposure time: 18 weeks; Species: CD-1 Mouse. Method: OECD Guideline 416; Result: NOAEL = 20700 mg/kg/day. Developmental toxicity/teratogenicity: Exposure time: 19d; Species: Sprague-Dawley Rat. Method: OECD Guideline 414; Result: NOAEL = 16000 ppm (maternal toxicity), Result: NOAEL >= 20000 ppm (teratogenicity); Literature information: ECHA Dossier

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS-No.: 111-76-2):

In-vitro mutagenicity: Method: OECD Guideline 476 (In Vitro Mammalian Cell Gene Mutation Test); Result: negative. ; Literature information: ECHA dossier; Carcinogenicity: Method: OECD Guideline 451 (Carcinogenicity Studies); Species: Mouse. ; Exposure duration: 2 years; Result: NOAEC = 125 ppm; Literature information: ECHA dossier; Reproductive toxicity: Method: other guideline: National Toxicology Programme Continuous Breeding Protocol ; Species: Mouse. ; Exposure duration: 90 d. Results: NOAEL = 720 mg/kg; Literature information: ECHA dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Species: Rabbit.; Exposure duration: 13 d. Results: NOAEL = 100 ppm. Literature information: ECHA dossier

### 2,2'-oxybisethanol; diethylene glycol:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA dossier; Carcinogenicity: Method: -; Species: Rat; Length of test: 2 years; Result: LOAEL = 1160 mg/kg; Literature information: ECHA dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Species: Rabbit; Length of test: 30 d. Result: NOAEL = 1000 mg/kg; Literature information: ECHA dossier; Reproductive toxicity: Method: -; Species: Mouse; Result: NOAEL = 3060 mg/kg; Literature information: ECHA dossier

### STOT-single exposure

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

### STOT-repeated exposure

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

Ethanol. (CAS-No.: 64-17-5):

Subchronic oral toxicity: Exposure time: 90d; Species: Sprague-Dawley Rat. Method: OECD Guideline 408; Result: NOAEL = 1280 mg/kg; Literature information: ECHA Dossier

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (CAS-No.: 111-76-2):

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents); Species: Rat ;Exposure duration: 90 d. Result: NOAEL =< 69 mg/kg; Literature information: ECHA dossier; Subchronic dermal toxicity: Method: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-day Study); Species: Rabbit (male/female).; Exposure duration: 90 d. Result: NOAEL => 150 mg/kg; Literature information: ECHA dossier

2,2'-oxybisethanol; diethylene glycol:

Chronic oral toxicity: Method: -; Species:Rat;Results: NOAEL = 100 mg/kg; Literature information: ECHA dossier

### Aspiration hazard

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

### Specific effects in experiment on an animal

No data available.

### **SECTION 12: Ecological information**

## 12.1. Toxicity

Ethanol. (CAS-No.: 64-17-5):

Acute earthworm toxicity: LC50 (48h) = <1mg/cm2 (Eisenia fetida, non-guideline study) Acute plant toxicity: EC50 (6d) = 11800 mg/l (Allium cepa, non-guideline study) Sediment organisms: LC59 (18h) = 8200 mg/l (Hyallela sp, non-guideline study)

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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
64-17-5	ethanol, ethyl alcohol								
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas	ECHA dossier			
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	ECHA dossier			
	Acute crustacea toxicity	EC50 mg/l	5012	48 h	Ceriodaphnia dubia	ECHA dossier			
	Crustacea toxicity	NOEC mg/l	(9,6)	9 d	Daphnia magna	ECHA dossier			
111-46-6	2,2'-oxybisethanol; diethy	lene glycol							
	Acute fish toxicity	LC50 mg/l	75200	96 h	Pimephales promelas	REACH Dossier			
	Acute algae toxicity	ErC50 13000 mg/l	6500 -	96 h	Pseudokirchneriella subcapitata	REACH Dossier	WoE		
	Acute crustacea toxicity	EC50 mg/l	62630	48 h	Daphnia magna	REACH Dossier			
	Fish toxicity	NOEC mg/l	15380	7 d	Pimephales promelas	REACH Dossier	WoE		
	Crustacea toxicity	NOEC mg/l	8590	7 d	Ceriodaphnia dubia	REACH Dossier	WoE		
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve								
	Acute fish toxicity	LC50 mg/l	1474	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA Dossier	OECD Guideline 203		
	Acute algae toxicity	ErC50	911 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	1800	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202		
	Fish toxicity	NOEC mg/l	>100	21 d	Danio rerio	ECHA Dossier	OECD Guideline 204		
	Algae toxicity	NOEC	88 mg/l	3 d	Pseudokirchneriella subcapitata	ECHA Dossier			
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211		

## 12.2. Persistence and degradability

Ethanol. (CAS-No.: 64-17-5): Chemical Oyxgen Demand (COD): CSB = 1900 mg/g Biochemical oxygen demand (BOD): BSB5 = 1000 mg/g Abiotic degradation in water: Hydrolysis t 1/2 (20°C, pH 7) = >1 - <36 a. Abiotic degradation in Air t 1/2 (Air.) = 38 d; 1/2 (Air. 100 ppm NO2) = 11,5 h

CAS No	Chemical name					
	Method	Value		d	Source	
	Evaluation					
64-17-5	ethanol, ethyl alcohol					
	other guideline:	84%		20	ECHA dossier	
	Biodegradable.					
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve					
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	90,4%		28	ECHA Dossier	
Easily biodegradable (concerning to the criteria of the OECD)						

## 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

according to Regulation (EC) No 1907/2006

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## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31
111-46-6	2,2'-oxybisethanol; diethylene glycol	-1,98
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	0,81

#### BCF

CAS No	Chemical name	BCF	Species	Source
111-46-6	2,2'-oxybisethanol; diethylene glycol	100	Leuciscus idus melanotus	Chemosphere 14(10):

### 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

No data available.

#### Further information

Do not allow to enter into surface water or drains.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

### List of Wastes Code - residues/unused products

160306 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes other than those mentioned in 16 03 05

#### List of Wastes Code - used product

160306 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes other than those mentioned in 16 03 05

#### List of Wastes Code - contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

## Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

### Land transport (ADR/RID)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Inland waterways transport (ADN)		
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	

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14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Marine transport (IMDG)	5 5 1 5	
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	no	
14.6. Special precautions for user Refer to section 6-8		
14.7. Transport in bulk according to Anne not relevant	x II of Marpol and the IBC Code	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg EU regulatory information Restrictions on use (REACH, annex XVI Entry 3: 2,2'-oxybisethanol; diethyler		
Entry 40: ethanol, ethyl alcohol	e giycol	
2010/75/EU (VOC):	No information available.	
2004/42/EC (VOC): Information according to 2012/18/EU (SEVESO III):	No information available. Not subject to 2012/18/EU (SEVESO III)	
Additional information		
	ulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878) rdous according to regulation (EC) No 1272/2008 [CLP]. Io (mixture): not relevant	
National regulatory information		
Water hazard class (D):	1 - slightly hazardous to water	
15.2. Chemical safety assessment		
For the following substances of this r ethanol, ethyl alcohol 2-butoxyethanol; ethyleneglycol mon	nixture a chemical safety assessment has been carried out:	
SECTION 16: Other information		
Changes Rev. 1.00; Neuerstellung, 16.10.202	0	
Abbroviations and acronyme		

## Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

according to Regulation (EC) No 1907/2006

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CAS Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived No Effect Level d: day(s) EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European LIst of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect concentration NLP: No-Longer Polymers N/A: not applicable OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern TRGS: Technische Regeln für Gefahrstoffe **UN: United Nations** VOC: Volatile Organic Compounds

## Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an
	allergic reaction.
EUH210	Safety data sheet available on request.

## **Further Information**

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure: Health hazards: Calculation method. Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be

according to Regulation (EC) No 1907/2006

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transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)