according to Regulation (EC) No. 1907/2006 (REACH)



### Karl-Fischer-ROTI®Hydroquant waterstandard 10.0, 10 mg H<sub>2</sub>O/g

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Replaces version of: 2017-02-24

Version: (1)

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

### **Product identifier** 1.1

Identification of the substance Karl-Fischer-ROTI®Hydroquant waterstand-

ard 10.0, 10 mg H<sub>2</sub>O/g

Article number 5219

Registration number (REACH) not relevant (mixture)

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes

(household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

sicherheit@carlroth.de e-mail (competent person):

### 1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	3	Flam. Liq. 3	H226
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318

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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.8R	Specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
3.9	Specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
3.10	Aspiration hazard	1	Asp. Tox. 1	H304

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.

### 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

## **Pictograms**

GHS02, GHS05, GHS07, GHS08









### **Hazard statements**

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H373	May cause damage to organs (kidney, liver, central nervous system) through
	prolonged or repeated exposure

### **Precautionary statements**

### **Precautionary statements - prevention**

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking P280 Wear protective gloves/eye protection

### **Precautionary statements - response**

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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 Call a POISON CENTRE/doctor if you feel unwell

**Hazardous ingredients for labelling:** 1-Butanol, Xylene (isomers)

Labelling of packages where the contents do not exceed 125 ml

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Signal word: Danger

Symbol(s)







H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

P280 Wear protective gloves/eye protection.
P305+P351+P388 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

contains: 1-Butanol, Xylene (isomers)

### 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

### 3.1 **Substances**

not relevant (mixture)

### 3.2 **Mixtures**

## **Description of the mixture**

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Propylene carbonate	CAS No 108-32-7	25 – 50	Eye Irrit. 2 / H319	<u>(!)</u>	GHS-HC
	EC No 203-572-1			<b>~</b>	
	Index No 607-194-00-1				
	REACH Reg. No 01-2119537232- 48-xxxx				
Xylene (isomers)	CAS No 1330-20-7	25 - 50	Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332	(i)	C(a) GHS-HC IOELV
	EC No 215-535-7		Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335		IOLLV
	Index No 601-022-00-9		STOT RE 2 / H373 Asp. Tox. 1 / H304		
	REACH Reg. No 01-2119488216- 32-xxxx				
1-Butanol	CAS No 71-36-3	10 - < 25	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Skin Irrit. 2 / H315		GHS-HC
	EC No 200-751-6		Eye Dam. 1 / H318 STOT SE 3 / H335 STOT SE 3 / H336		
	Index No 603-004-00-6		3101323711330		
	REACH Reg. No 01-2119484630- 38-xxxx				

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C(a): Mixture of isomers GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/

2008/EC, Annex VI)

Substance with a community indicative occupational exposure limit value

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Xylene (isomers)	CAS No 1330-20-7 EC No 215-535-7	-	-	1.100 <sup>mg</sup> / <sub>kg</sub> 11 <sup>mg</sup> / <sub>l</sub> /4h	dermal inhalation: va- pour
	Index No 601-022-00-9				
1-Butanol	CAS No 71-36-3 EC No 200-751-6	-	-	500 <sup>mg</sup> / <sub>kg</sub>	oral
	Index No 603-004-00-6				

For full text of abbreviations: see SECTION 16

# **SECTION 4: First aid measures**

### 4.1 **Description of first aid measures**



### **General notes**

Take off contaminated clothing.

### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

### **Following skin contact**

Rinse skin with water/shower. In case of skin irritation, consult a physician.

### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### **Following ingestion**

Call a physician immediately. Observe aspiration hazard if vomiting occurs.

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

Irritation, Vomiting, Aspiration hazard, Risk of serious damage to eyes, Risk of blindness, Dizziness, Drowsiness, Narcosis, Cough, Dyspnoea

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

none

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# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

water jet

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

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

### **Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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

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



### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

### **6.2** Environmental precautions

Keep away from drains, surface and ground water. Danger of explosion.

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

### Advice on how to contain a spill

Covering of drains.

### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Provision of sufficient ventilation.

### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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

Keep container tightly closed.

### **Incompatible substances or mixtures**

Observe hints for combined storage.

### Consideration of other advice:

Ground/bond container and receiving equipment.

### **Ventilation requirements**

Use local and general ventilation.

## Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

## 7.3 Specific end use(s)

No information available.

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

## 8.1 Control parameters

### **National limit values**

### **Occupational exposure limit values (Workplace Exposure Limits)**

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	xylene	1330-20- 7	IOELV	50	221	100	442				2000/39/ EC
GB	xylene, mixture of isomers	1330-20- 7	WEL	50	220	100	441				EH40/ 2005

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Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
GB	butan-1-ol	71-36-3	WEL			50	154				EH40/ 2005

Notation

Ceiling-C

STEL

TWA

Ceiling value is a limit value above which exposure should not occur Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

## **Biological limit values**

Coun try	Name of agent	CAS No	Parameter	Nota tion	Identi- fier	Value	Material	Source
GB	xylene, mixture of isomers	1330-20- 7	methylhippuric acids	crea	BMGV	650 mmol/ mol	urine	EH40/ 2005

Notation

crea Creatinine

Relevant DNELs	of compone	ents of th	e mixture			
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Propylene carbon- ate	108-32-7	DNEL	70,53 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Propylene carbon- ate	108-32-7	DNEL	20 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects
Propylene carbon- ate	108-32-7	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Xylene (isomers)	1330-20-7	DNEL	221 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Xylene (isomers)	1330-20-7	DNEL	442 mg/m³	human, inhalat- ory	worker (industry)	acute - systemic effects
Xylene (isomers)	1330-20-7	DNEL	221 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects
Xylene (isomers)	1330-20-7	DNEL	442 mg/m³	human, inhalat- ory	worker (industry)	acute - local ef- fects
Xylene (isomers)	1330-20-7	DNEL	212 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1-Butanol	71-36-3	DNEL	310 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects

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Relevant PNECs	of compone	nts of th	ne mixture			
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Propylene carbon- ate	108-32-7	PNEC	9 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	water	intermittent re- lease
Propylene carbon- ate	108-32-7	PNEC	0,9 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Propylene carbon- ate	108-32-7	PNEC	0,09 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
Propylene carbon- ate	108-32-7	PNEC	7.400 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Propylene carbon- ate	108-32-7	PNEC	0,81 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
Xylene (isomers)	1330-20-7	PNEC	0,327 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Xylene (isomers)	1330-20-7	PNEC	0,327 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
Xylene (isomers)	1330-20-7	PNEC	6,58 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Xylene (isomers)	1330-20-7	PNEC	12,46 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Xylene (isomers)	1330-20-7	PNEC	12,46 <sup>mg</sup> /	aquatic organ- isms	marine sediment	short-term (single instance)
Xylene (isomers)	1330-20-7	PNEC	2,31 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
1-Butanol	71-36-3	PNEC	0,082 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
1-Butanol	71-36-3	PNEC	0,008 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
1-Butanol	71-36-3	PNEC	2.476 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
1-Butanol	71-36-3	PNEC	0,324 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
1-Butanol	71-36-3	PNEC	0,032 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)
1-Butanol	71-36-3	PNEC	0,017 <sup>mg</sup> /	terrestrial organ- isms	soil	short-term (single instance)

### 8.2 **Exposure controls**

Individual protection measures (personal protective equipment) **Eye/face protection** 



Use safety goggle with side protection.

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### Skin protection



### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

### • type of material

Butyl caoutchouc (butyl rubber)

### material thickness

0,7mm

### · breakthrough times of the glove material

>480 minutes (permeation: level 6)

### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### **Respiratory protection**





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

## **Environmental exposure controls**

Keep away from drains, surface and ground water.

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

## 9.1 Information on basic physical and chemical properties

Physical state liquid
Colour colourless
Odour characteristic
Melting point/freezing point not determined

Boiling point or initial boiling point and boiling

range

not determined

Flammability flammable liquid in accordance with GHS criteria

Lower and upper explosion limit 1,1 vol% - 9,4 vol%

Flash point 30 °C

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Auto-ignition temperature 340 °C

Decomposition temperature not relevant pH (value) not determined

Kinematic viscosity not determined

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure 6,7 hPa at 20 °C

Density 1,019 g/<sub>cm³</sub> at 20 °C

Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

Flammable liquids

Sustained combustibility yes, sustained combustion was observed

Other safety characteristics:

Miscibility completely miscible with water

Temperature class (EU, acc. to ATEX) T2

Maximum permissible surface temperature on

the equipment: 300°C

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

### If heated

Risk of ignition. Vapours may form explosive mixtures with air.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Nitric acid, Sulphur, Sulphuric acid

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials

Rubber articles, different plastics

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

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

Test data are not available for the complete mixture.

### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Classification according to GHS (1272/2008/EC, CLP)

### **Acute toxicity**

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of comp	onents of the	mixture

Name of substance	CAS No	Exposure route	ATE
Xylene (isomers)	1330-20-7	dermal	1.100 <sup>mg</sup> / <sub>kg</sub>
Xylene (isomers)	1330-20-7	inhalation: vapour	11 <sup>mg</sup> / <sub>l</sub> /4h
1-Butanol	71-36-3	oral	500 <sup>mg</sup> / <sub>kg</sub>

### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Propylene carbonate	108-32-7	oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat
Xylene (isomers)	1330-20-7	inhalation: va- pour	LC50	29 <sup>mg</sup> / <sub>l</sub> /4h	rat
Xylene (isomers)	1330-20-7	oral	LD50	3.523 <sup>mg</sup> / <sub>kg</sub>	rat
1-Butanol	71-36-3	oral	LD50	2.292 <sup>mg</sup> / <sub>kg</sub>	rat
1-Butanol	71-36-3	dermal	LD50	3.430 <sup>mg</sup> / <sub>kg</sub>	rabbit

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

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Shall not be classified as a respiratory or skin sensitiser.

### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

### **Specific target organ toxicity - single exposure**

May cause respiratory irritation. May cause drowsiness or dizziness.

### Specific target organ toxicity - repeated exposure

May cause damage to organs (kidney, liver, central nervous system) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
2	kidney	if exposed
2	liver	if exposed
2	central nervous system	if exposed

### **Aspiration hazard**

May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

### If swallowed

aspiration hazard

### • If in eyes

Causes serious eye damage, risk of blindness

### • If inhaled

Irritation to respiratory tract, fatigue, narcosis, cough, Dyspnoea

### • If on skin

causes skin irritation

### Other information

Other adverse effects: Liver and kidney damage

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

### 11.3 Information on other hazards

There is no additional information.

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# **SECTION 12: Ecological information**

## 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

# Aquatic toxicity (acute) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Propylene carbonate	108-32-7	LC50	>1.000 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Propylene carbonate	108-32-7	EC50	>1.000 <sup>mg</sup> / <sub>l</sub>	daphnia magna	24 h
Propylene carbonate	108-32-7	ErC50	>900 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Xylene (isomers)	1330-20-7	LC50	2,6 <sup>mg</sup> / <sub>l</sub>	rainbow trout	96 h
Xylene (isomers)	1330-20-7	ErC50	4,7 <sup>mg</sup> / <sub>l</sub>	algae	72 h
1-Butanol	71-36-3	LC50	1.376 <sup>mg</sup> / <sub>l</sub>	fish	96 h
1-Butanol	71-36-3	EC50	1.328 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
1-Butanol	71-36-3	ErC50	225 <sup>mg</sup> / <sub>l</sub>	algae	96 h

## Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Xylene (isomers)	1330-20-7	EC50	2,2 <sup>mg</sup> / <sub>l</sub>	algae	73 h
1-Butanol	71-36-3	EC50	18 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d

### **Biodegradation**

The relevant substances of the mixture are readily biodegradable.

## 12.2 Process of degradability

## Degradability of components of the mixture

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Propylene car- bonate	108-32-7	biotic/abiotic	97 %	4 d		
Propylene car- bonate	108-32-7	carbon dioxide generation	70,2 %	9 d		ECHA
Xylene (iso- mers)	1330-20-7	oxygen deple- tion	98 %	28 d		ECHA
1-Butanol	71-36-3	biotic/abiotic	98 %	28 d		
1-Butanol	71-36-3	oxygen deple- tion	68 %	5 d		ECHA

## 12.3 Bioaccumulative potential

Data are not available.

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according to Regulation (EC) No. 1907/2006 (REACH)



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Bioaccumulative potential	of componen	ts of the mixt	ure

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Propylene carbonate	108-32-7		-0,48 (25 °C)	
Xylene (isomers)	1330-20-7	>5,5 - <12,2	3,15 (pH value: 7, 20 °C)	
1-Butanol	71-36-3		1 (pH value: 7, 25 °C)	

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Sewage disposal-relevant information

Do not empty into drains.

### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

# **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADR/RID/ADN UN 1993 IMDG-Code UN 1993 ICAO-TI UN 1993

### 14.2 UN proper shipping name

ADR/RID/ADN FLAMMABLE LIQUID, N.O.S.

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according to Regulation (EC) No. 1907/2006 (REACH)



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0.1 0.0.		
	IMDG-Code	FLAMMABLE LIQUID, N.O.S.
	ICAO-TI	Flammable liquid, n.o.s.
	Technical name (hazardous ingredients)	Xylene (isomers), 1-Butanol
14.3	Transport hazard class(es)	
	ADR/RID/ADN	3
	IMDG-Code	3
	ICAO-TI	3
14.4	Packing group	
	ADR/RID/ADN	III
	IMDG-Code	III
	ICAO-TI	III
14.5	Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations

## 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

## 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

# Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Particulars in the transport document	UN1993, FLAMMABLE LIQUID, N.O.S., (contains: Xylene (isomers), 1-Butanol), 3, III, (D/E)
Classification code	F1
Danger label(s)	3



<b>Emergency Action Code</b>	3Y
Hazard identification No	30
Tunnel restriction code (TRC)	D/E
Transport category (TC)	3
Limited quantities (LQ)	5 L
Excepted quantities (EQ)	E1
Special provisions (SP)	274, 601

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International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name FLAMMABLE LIQUID, N.O.S.

Particulars in the shipper's declaration UN1993, FLAMMABLE LIQUID, N.O.S., (contains:

Xylene (isomers), 1-Butanol), 3, III, 30°C c.c.

Marine pollutant

Danger label(s) 3



Special provisions (SP) 223, 274, 955

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
EmS F-E, S-E

Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Flammable liquid, n.o.s.

Particulars in the shipper's declaration UN1993, Flammable liquid, n.o.s., (contains: Xy-

lene (isomers), 1-Butanol), 3, III

Danger label(s) 3



Special provisions (SP)

Excepted quantities (EQ)

Limited quantities (LQ)

A3

E1

10 L

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

### Dangerous substances with restrictions (REACH, Annex XVII)

Name of substance	Name acc. to inventory	CAS No	Restriction	No
Karl-Fischer-ROTI®Hydroquant water- standard 10.0	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3
Xylene (isomers)	flammable / pyrophoric		R40	40
1-Butanol	flammable / pyrophoric		R40	40
1-Butanol	substances in tattoo inks and permanent make-up		R75	75

### Legend

R3

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

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according to Regulation (EC) No. 1907/2006 (REACH)



### Karl-Fischer-ROTI®Hydroquant waterstandard 10.0, 10 mg H<sub>2</sub>O/g

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### Legend

tricks and lokes

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they

- can be used as fuel in decorative oil lamps for supply to the general public, and
   present an aspiration hazard and are labelled with H304.

  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation
- (CEN).

  5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packbefore the placing on the market, that the following require aging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met

ments are met:

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";

(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';

(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for experts in macrosol dispensers such as the following:

- R40 for supply to the general public for entertainment and decorative purposes such as the following: - metallic glitter intended mainly for decoration,
  - artificial snow and frost,
  - 'whoopee' cushions,

  - silly string aerosols,imitation excrement,

  - horns for parties,
    decorative flakes and foams,
  - artificial cobwebs,
  - stink bombs.
  - 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.
  - 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
  - 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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according to Regulation (EC) No. 1907/2006 (REACH)

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### Legend

**R75** 

1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:

(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category

1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;

(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by

(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;

(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:

(i) 0,1 % by weight, if the substance is used solely as a pH regulator

(ií) 0,01 % by weight, in all other cases;

(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the

mixture in a concentration equal to or greater than 0,00005 % by weight;

(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:

(i) "Rinse-off products";
(ii) "Not to be used in products applied on mucous membranes";
(iii) "Not to be used in eye products";

(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column; (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concen-

(n) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.

2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.

3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.

as also falls within one of more of points (a) to (g) of paragraph 1, the concentration limit faid down in point (ii) of paragraph 1 shall apply to that substance.

4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).

5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that now or revised classification in fifty the date referred to in paragraph 1 or as the case may be paragraph. plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.

6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the

amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.

7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:

(a) the statement "Mixture for use in tattoos or permanent make-up";

(a) the statement "Mixture for use in tattoos or permanent make-up";
(b) a reference number to uniquely identify the batch;
(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;

tion limit specified in Appendix 13

(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below

the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.

Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for

tattooing purposes.

according to Regulation (EC) No. 1907/2006 (REACH)



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### Legend

9. This entry does not apply to substances that are gases at temperature of 20  $^{\circ}$ C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50  $^{\circ}$ C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

## List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed. (Or Concentration of the substance in a mixture: <0.1 % Mass concentration)

### **Seveso Directive**

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity plication of lower quirer		Notes
P5c	flammable liquids (cat. 2, 3)	5.000	50.000	51)

### Notation

51) Flammable liquids, categories 2 or 3 not covered by P5a and P5b

### **Deco-Paint Directive**

VOC content	100 % 1.019 <sup>g</sup> / <sub>l</sub>
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### **Industrial Emissions Directive (IED)**

VOC content	55 %
VOC content	560,5 <sup>g</sup> / <sub>l</sub>

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Pollutant release and transfer registers (PRTR)			
Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)
Xylene (isomers)	1330-20-7	(17) (11)	

### Legend

- (11) Single pollutants are to be reported if the threshold for BTEX (the sum parameter of benzene, toluene, ethyl benzene, xylenes) is exceeded
- (17) Total mass of xylene (ortho-xylene, meta-xylene, para-xylene)

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### **Water Framework Directive (WFD)**

### **List of pollutants (WFD)**

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Xylene (isomers)	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		A)	

Legend

A) Indicative list of the main pollutants

### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

## Regulation on drug precursors

none of the ingredients are listed

## Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### **National inventories**

Country	Inventory	Status
AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

AICS Australian Inventory of Chemical Substances CICR Chemical Inventory and Control Regulation

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Legend

CSCL-ENCS

ECSI

List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances
Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korsa Existing Chemicals Inventory **IECSC** 

INSQ ISHA-ENCS

KECI

NZIoC

Korea Existing Chemicals Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS)

REACH Reg. REACH registered substances

Taiwan Chemical Substance Inventory TCSI **TSCA Toxic Substance Control Act** 

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

### **Indication of changes (revised safety data sheet)**

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1	The most important adverse physicochemical, human health and environmental effects: Narcotic effects.	The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2	Hazardous ingredients for labelling: butyl alcohol (except tert-butyl alcohol)	Hazardous ingredients for labelling: 1-Butanol, Xylene (isomers)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: Butyl alcohol (except tert-butyl alcohol)	contains: 1-Butanol, Xylene (isomers)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

## **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	European Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye

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Abbr.	Descriptions of used abbreviations
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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according to Regulation (EC) No. 1907/2006 (REACH)



### Karl-Fischer-ROTI®Hydroquant waterstandard 10.0, 10 mg H<sub>2</sub>O/g

article number: 5219

### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs (kidney, liver, central nervous system) through prolonged or repeated expos- ure.

### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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