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Revision date / version: 07.11.2023 / 0003

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Scheibenfrostschutz Konzentrat-60° C

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

1.1 Product identifier

Scheibenfrostschutz Konzentrat-60° C

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

Anti-freeze

for the windscreen washer

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0

Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement

Flam. Liq. 2 H225-Highly flammable liquid and vapour.

Eye Irrit. 2 H319-Causes serious eye irritation.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



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H225-Highly flammable liquid and vapour. H319-Causes serious eye irritation.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233-Keep container tightly closed. P280-Wear eye protection / face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313-If eye irritation persists: Get medical advice / attention.

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

EUH208-Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. **3.2 Mixtures**

Ethanol	
Registration number (REACH)	01-2119457610-43-XXXX
Index	603-002-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	200-578-6
CAS	64-17-5
content %	50-90
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	Eye Irrit. 2, H319: >=50 %

Ethanediol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119456816-28-XXXX
Index	603-027-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	203-473-3
CAS	107-21-1
content %	2,5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	STOT RE 2, H373 (kidneys) (oral)

2-methylisothiazol-3(2H)-one	
Registration number (REACH)	



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Index	613-326-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	220-239-6
CAS	2682-20-4
content %	0,00015-<0,0015
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH071
	Acute Tox. 2, H330
	Acute Tox. 3, H301
	Acute Tox. 3, H311
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	Skin Sens. 1A, H317: >=0,0015 %

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eve contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

eyes, reddened

watering eyes

Sensitive individuals:

Allergic reaction possible.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

CO2

Extinction powder

Water jet spray

Alcohol resistant foam

Unsuitable extinguishing media



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5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon Formaldehyde Hydrogen gas Oxides of sulphur Toxic gases

Possible build up of explosive/highly flammable vapour/air mixture.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

Flush residue using copious water.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.



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Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with flammable or self-igniting materials.

Observe special storage conditions.

Protect from direct sunlight and warming.

Store in a well-ventilated place.

Store cool.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name Ethanol					
WEL-TWA: 1000 ppm (1920 mg/m3)	WEL-STEL:				
Monitoring procedures:	- Draeger - Alcohol 25/a Ethanol (81 01 631)				
	- Compur - KITA-104 SA (549 210)				
	DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) - 2013,			
	- 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2	004)			
	DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013 - EU project				
	BC/CEN/ENTR/000/2002-16 card 63-2 (2004)				
	DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013 - EU	project			
	- BC/CEN/ENTR/000/2002-16 card 63-2 (2004)				
BMGV:	Other information:				
Chemical Name Ethanediol					
WEL-TWA: 10 mg/m3 (particulate), 52 mg/m3	WEL-STEL: 104 mg/m3 (vapour) (WEL), 40 ppm				
(vapour) (WEL), 20 ppm (52 mg/m3) (EU)	(104 mg/m3) (EU)				
Monitoring procedures:	- Draeger - Ethylene Glycol 10 (5) (81 01 351)				
	- Compur - KITA-232 SA (502 342)				
	- Compur - KITA-232 SB (550 267)				
	- NIOSH 5500 (ETHYLENE GLYCOL) - 1993				
	- NIOSH 5523 (GLYCOLS) - 1996				
	OSHA PV2024 (Ethylene glycol) - 1999 - EU project BC/CE	N/ENTR/000/2002-16 card			
	- 11-2 (2004)				
BMGV:	Other information: Sk	(particulate, vapour)			
Chemical Name Glycerol					
WEL-TWA: 10 mg/m3 (mist)	WEL-STEL:				
Monitoring procedures:					
BMGV:	Other information:				
	1				

Ethanol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,96	mg/l	
	Environment - marine		PNEC	0,79	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	2,75	mg/l	
	Environment - sewage treatment plant		PNEC	580	mg/l	



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	Environment - sediment, freshwater		PNEC	3,6	mg/kg dry weight
	Environment - soil		PNEC	0,63	mg/kg dry weight
	Environment - oral (animal feed)		PNEC	0,38	g/kg feed
	Environment - sediment, marine		PNEC	2,9	mg/kg dry weight
Consumer	Human - dermal	Short term, local effects	DNEL	950	mg/m3
Consumer	Human - inhalation	Long term, systemic effects	DNEL	114	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	87	mg/kg
Consumer	Human - dermal	Long term, systemic effects	DNEL	206	mg/kg bw/d
Consumer	Human - inhalation	Short term, local effects	DNEL	950	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	343	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	950	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1900	mg/m3

Ethanediol						
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	10	mg/l	
	Environment - marine		PNEC	1	mg/l	
	Environment - sediment		PNEC	20,9	mg/kg	
	Environment - soil		PNEC	1,53	mg/kg	
	Environment - sewage treatment plant		PNEC	199,5	mg/l	
	Environment - water, sporadic (intermittent)		PNEC	10	mg/l	
	release Environment - sediment.		PNEC	37	ma/ka dn	
	freshwater		PINEC	31	mg/kg dry weight	
	Environment - sediment, marine		PNEC	3,7	mg/kg dry weight	
Consumer	Human - inhalation	Long term, local effects	DNEL	7	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	53	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	35	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	106	mg/kg bw/d	

2-methylisothiazol-3(2H)	-one					
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	3,39	μg/l	
	Environment - marine		PNEC	3,39	μg/l	
	Environment - water,		PNEC	3,39	μg/l	
	sporadic (intermittent)					
	release					
	Environment - sewage		PNEC	0,23	mg/l	
	treatment plant					
	Environment - soil		PNEC	0,0471	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,021	mg/m3	



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Consumer	Human - inhalation	Short term, local effects	DNEL	0,043	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	0,027	mg/kg body weight/day
Consumer	Human - oral	Short term, systemic effects	DNEL	0,053	mg/kg body weight/day
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,021	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,043	mg/m3

Glycerol						
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,885	mg/l	
	Environment - marine		PNEC	0,088	mg/l	
	Environment - sewage		PNEC	1000	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	3,3	mg/kg dw	
	freshwater					
	Environment - sediment,		PNEC	0,33	mg/kg dw	
	marine					
	Environment - soil		PNEC	0,141	mg/kg dw	
	Environment - water,		PNEC	8,85	mg/l	
	sporadic (intermittent)					
	release					
Consumer	Human - inhalation	Long term, local effects	DNEL	33	mg/m3	
Consumer	Human - oral	Long term, systemic	DNEL	229	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	56	mg/m3	

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
- (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.



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Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective gloves in butyl rubber (EN ISO 374).

Minimum layer thickness in mm:

0.5

Permeation time (penetration time) in minutes:

480

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

Characteristic

Flammable

21.5 °C

Mixable

9.1 Information on basic physical and chemical properties

Physical state: Liauid Colour: Blue

Odour:

Melting point/freezing point:

Boiling point or initial boiling point and boiling range:

Flammability:

Lower explosion limit: Upper explosion limit:

Flash point:

Auto-ignition temperature: Decomposition temperature:

Kinematic viscosity:

Solubility:

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density: Relative vapour density: Particle characteristics:

Does not apply to mixtures.

9-10 (100 %, 20°C, DIN 19268)

There is no information available on this parameter.

0,91-0,92 g/cm3 (20°C, DIN 51757)

There is no information available on this parameter.

Does not apply to liquids.

9.2 Other information



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No information available at present.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

Scheibenfrostschutz Konzentrat-60° C							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value	
Acute toxicity, by dermal route:						n.d.a.	
Acute toxicity, by inhalation:						n.d.a.	
Skin corrosion/irritation:						n.d.a.	
Serious eye damage/irritation:						n.d.a.	
Respiratory or skin						n.d.a.	
sensitisation:							
Germ cell mutagenicity:						n.d.a.	
Carcinogenicity:						n.d.a.	
Reproductive toxicity:						n.d.a.	
Specific target organ toxicity -						n.d.a.	
single exposure (STOT-SE):							
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.	
Aspiration hazard:						n.d.a.	
Symptoms:						n.d.a.	

Ethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	10470	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	51-124,7	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Irrit. 2
					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin contact)
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	



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Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 475 (Mammalian	Negative
					Bone Marrow	_
					Chromosome	
					Aberration Test)	
Carcinogenicity:	NOAEL	>3000	mg/kg	Rat	OECD 451	24 mon
3					(Carcinogenicity Studies)	
Reproductive toxicity:	NOAEL	5200	mg/kg	Rat	OECD 416 (Two-	
.,			bw/d		generation	
			211, 2		Reproduction Toxicity	
					Study)	
Specific target organ toxicity -	NOAL	>20	mg/l	Rat	OECD 403 (Acute	Male
repeated exposure (STOT-RE):	110/12	720	1119/1	T COL	Inhalation Toxicity)	Midio
Specific target organ toxicity -	NOAEL	1730	mg/kg/d	Rat	OECD 408 (Repeated	Female
repeated exposure (STOT-RE):	HOMEL	1700	mg/kg/d	T COL	Dose 90-Day Oral	Tomalo
repeated exposure (6101 RE).					Toxicity Study in	
					Rodents)	
Symptoms:					Rodents)	respiratory
Symptoms.						distress,
						drowsiness,
						unconsciousnes
						, drop in blood
						pressure,
						vomiting,
						coughing,
						headaches,
						intoxication,
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness,
						nausea

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1600	mg/kg	Human being		
Acute toxicity, by dermal route:	LD50	9530	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>2,5	mg/l/6h	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin				Human being	(Patch-Test)	Negative
sensitisation:						
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Rat	in vivo	Negative
Carcinogenicity:	NOAEL	1500	mg/kg	Mouse		Male, Negative
						oral, 2 a
Reproductive toxicity:	NOAEL	1000	mg/kg bw/d	Rat		Negative
Reproductive toxicity	NOAEL	250	mg/kg	Rat		Negative
(Developmental toxicity):			bw/d			
Specific target organ toxicity -	NOEL	150	mg/kg		OECD 408 (Repeated	STOT RE 2,
repeated exposure (STOT-RE),			bw/d		Dose 90-Day Oral	Target organ(s):
oral:					Toxicity Study in	kidneys
					Rodents)	



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Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	150	mg/kg bw/d	Rat	OECD 452 (Chronic Toxicity Studies)	STOT RE 2, Target organ(s): kidneys
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	>2200 - <4400	mg/kg bw/d	Dog		Negative
Symptoms:						ataxia, breathing difficulties, unconsciousness , cramps, fatigue

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	120	mg/kg	Rat	U.S. EPA Guidline OPPTS 870.1100	Female
Acute toxicity, by oral route:	LD50	183	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	242	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	0,11	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive
Serious eye damage/irritation:				Rabbit	,	Risk of serious damage to eyes
Serious eye damage/irritation:						Risk of serious damage to eyes
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Reproductive toxicity:	NOAEL	200	ppm	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	60	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Symptoms:					,	mucous membrane irritation, watering eyes

Glycerol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>10000	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit	IUCLID Chem. Data Sheet (ESIS)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:	NOAEL	2000	mg/kg/d			Negative



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Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	3,91	mg/l	Rat	(14d)
Aspiration hazard:					Negative
Symptoms:					abdominal pain, drowsiness, diarrhoea, vomiting, headaches, mucous membrane irritation, nausea

11.2. Information on other hazards

Scheibenfrostschutz Konzentrat-60° C									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Endocrine disrupting properties:						Does not apply			
						to mixtures.			
Other information:						No other			
						relevant			
						information			
						available on			
						adverse effects			
						on health.			

Ethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Other information:						Excessive
						alcohol
						consumption
						during
						pregnancy
						induces the
						foetus alcohol
						syndrome
						(reduced weight
						at birth, physical
						and mental
						disorders).,
						There is no sign
						that this
						syndrome is also
						caused by
						dermal or
						inhalative
						absorption.,
						Experiences on
						persons.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Scheibenfrostschutz Ko	Scheibenfrostschutz Konzentrat-60° C										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:							n.d.a.				
12.1. Toxicity to daphnia:							n.d.a.				
12.1. Toxicity to algae:							n.d.a.				



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12.2. Persistence and					The surfactant(s)
degradability:					contained in this
and an area area.					mixture
					complies(comply)
					with the
					biodegradability
					criteria as laid
					down in
					Regulation (EC)
					No.648/2004 on
					detergents. Data
					to support this
					assertion are
					held at the
					disposal of the
					competent
					authorities of the
					Member States
					and will be made
					available to
					them, at their
					direct request or
					at the request of
					a detergent
					manufacturer.
12.3. Bioaccumulative					n.d.a.
potential:					
12.4. Mobility in soil:					n.d.a.
12.5. Results of PBT					n.d.a.
and vPvB assessment					
12.6. Endocrine					Does not apply
disrupting properties:					to mixtures.
12.7. Other adverse					No information
effects:					available on
					other adverse
					effects on the
					environment.
Other information:					DOC-elimination
					degree(complexi
					ng organic
					substance)>=
					80%/28d: Yes
Other information:	AOX	0	%		According to the
			"		recipe, contains
<u> </u>					no AOX.
		l			110 / 10/1.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	120h	250	mg/l	Brachydanio rerio	OECD 212 (Fish, Short- term Toxicity Test on Embryo and Sac- fry Stages)	
12.1. Toxicity to daphnia:	EC50	48h	5414	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	10d	9,6	mg/l	Ceriodaphnia spec.	,	References



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12.1. Toxicity to algae:	EC50	72h	275	mg/l	Chlorella vulgaris	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	97	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		(-0,35) - (-0,32)			,	Bioaccumulation is unlikely (LogPow < 1).
12.3. Bioaccumulative potential:	BCF		0,66 - 3,2				
12.4. Mobility in soil:	H (Henry)		0,00013				
12.4. Mobility in soil:	Koc		1,0				Highestimated
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	IC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other organisms:	NOEC/NOEL		280	mg/l	Lemna gibba	OECD 201 (Alga, Growth Inhibition Test)	
Other information:	COD		1,9	g/g			
Other information:	BOD5		1	g/g			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Pimephales	IUCLID Chem.	
					promelas	Data Sheet (ESIS)	
12.1. Toxicity to fish:	NOEC/NOEL	7d	15380	mg/l	Pimephales	U.S. EPA	
					promelas	ECOTOX	
						Database	
12.1. Toxicity to daphnia:	NOEC/NOEL		8590	mg/l	Daphnia magna	U.S. EPA	
						ECOTOX	
						Database	
12.1. Toxicity to daphnia:	NOEC/NOEL	7d	8590	mg/l	Ceriodaphnia	U.S. EPA	
					spec.	ECOTOX	
						Database	
12.1. Toxicity to algae:	EC50	96h	6500-	mg/l	Pseudokirchneriell	U.S. EPA	
			13000		a subcapitata	ECOTOX	
						Database	
12.2. Persistence and		10d	90-100	%	activated sludge	OECD 301 A	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	•
						DOC Die-Away	
						Test)	
12.2. Persistence and		28d	56	%		OECD 301 C	
degradability:						(Ready	
,						Biodegradability -	
						Modified MITI	
						Test (I))	
12.3. Bioaccumulative	Log Pow		-1,36			.,,	Not to be
potential:	•						expected
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance



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Toxicity to bacteria:	EC50	16h	>10000	mg/l	Pseudomonas putida	IUCLID Chem. Data Sheet (ESIS)	
Toxicity to bacteria:	EC20	30min	>1995	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other information:	BOD5		0,78	g/g			IUCLID

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	28d	2,38	mg/l	Pimephales	OECD 210 (Fish,	110100
12.11. Toxiony to non.	NOLO/NOLL	200	2,00	1119/1	promelas	Early-Life Stage	
					promeias	Toxicity Test)	
40.4 Taviaitu ta fiala	LC50	OCF	4 77	/I	On so why we share		
12.1. Toxicity to fish:	LC50	96h	4,77	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,55	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,359	mg/l	Daphnia magna	OECD 202	
,			-,			(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1 Toyioity to olaco:	EC50	72h	0,445	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
12.1. Toxicity to algae:	EC30	120	0,445	mg/i			
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,03	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	120h	0,05	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
, ,			'		a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		48h	97	%		OECD 302 B	Readily
degradability:		4011	"	70		(Inherent	biodegradable
acgradability.						Biodegradability -	bloacgradabic
						Zahn-	
						Wellens/EMPA	
						Test)	
12.2. Persistence and			< 0,08	d		OECD 307	
degradability:						(Aerobic and	
						Anaerobic	
						Transformation in	
						Soil)	
12.2. Persistence and			1,28-2,1	d		OEĆD 308	
degradability:			, ==,.			(Aerobic and	
						Anaerobic	
						Transformation in	
						Aquatic Sediment	
40.0 Damaiate			+ 4 4	-		Systems)	
12.2. Persistence and			4,1	d		OECD 309	
degradability:						(Aerobic	
						Mineralisation in	
						Surface Water -	
						Simulation	
						Biodegradation	
						Test)	



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12.2. Persistence and		28d	0,32	%		OECD 301 B	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative	Log Pow		-0,32			OECD 117	Slight
potential:						(Partition	
						Coefficient (n-	
						octanol/water) -	
						HPLC method)	
12.3. Bioaccumulative potential:	BCF		3,16				calculated value
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:	EC50	3h	34,6	mg/l	activated sludge		DIN 38412-3
							(TTC-Test)
Toxicity to bacteria:	EC20	3h	2,8	mg/l	activated sludge		DIN 38412-3
							(TTC-Test)

Glycerol Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	> 5000	mg/l	Carassius auratus	1 est illetillou	140162
	EC50	48h	>10000				
12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia:	EC5	72h	3200	mg/l mg/l	Daphnia magna		Entosiphon sulcatum
12.1. Toxicity to algae:	EC50		2900	mg/l	Chlorella vulgaris		- Caroatani
12.2. Persistence and degradability:		14d	63	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	
12.2. Persistence and degradability:	BOD/COD		>60	%			
12.2. Persistence and degradability:	BOD5/COD		> 50	%			
12.2. Persistence and degradability:	DOC		>70	%			Readily biodegradable
12.2. Persistence and degradability:	BOD5		0,87	g/g			
12.2. Persistence and degradability:	COD		1,16	g/g			
12.3. Bioaccumulative potential:	Log Pow		-1,75			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Bioaccumulation is unlikely (LogPow < 1).
12.5. Results of PBT and vPvB assessment						,	No PBT substance, No vPvB substance
Toxicity to bacteria:	EC5	16h	> 10000	mg/l	Pseudomonas putida		

SECTION 13: Disposal considerations

13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)



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16 01 14 antifreeze fluids containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:
14.2. UN proper shipping name:
UN 1170 ETHANOL, MIXTURE
14.3. Transport hazard class(es):
3

14.3. Transport hazard class(es):

14.4. Packing group:

II

14.5. Environmental hazards:

Not applicable

Tunnel restriction code: D/E
Classification code: F1
LQ: 1 L
Transport category: 2

Transport by sea (IMDG-code)

14.1. UN number or ID number: 1170

14.2. UN proper shipping name:
UN 1170 ETHANOL, MIXTURE
14.3. Transport hazard class(es):
3
14.4. Packing group:
II

14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:F-E, S-D

Transport by air (IATA)

14.1. UN number or ID number:

14.2. UN proper shipping name: UN 1170 Ethanol mixture

14.3. Transport hazard class(es):

14.4. Packing group:

II

14.5. Environmental hazards:

Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.









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Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered

according to storage, handling etc.):

according to storage, nanding ctc.,	J•		
Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P5c		5000	50000

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

56 %

Directive 2010/75/EU (VOC):

REGULATION (EC) No 648/2004

less than 5 % anionic surfactants

perfumes

METHYLISOTHIAZOLINONE BENZISOTHIAZOLINONE

METHYLCHLOROISOTHIAZOLINONE/ METHYLISOTHIAZOLINONE

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label.

Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.

Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

These are indicated in the approval of the active substance.

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 5, 7, 9, 11, 15

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Flam. Liq. 2, H225	Classification based on test data.
Eye Irrit. 2, H319	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

H330 Fatal if inhaled.

H225 Highly flammable liquid and vapour.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H317 May cause an allergic skin reaction.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.



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H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Flam. Liq. — Flammable liquid

Eye Irrit. — Eye irritation

Acute Tox. — Acute toxicity - oral STOT RE — Specific target organ toxicity - repeated exposure

Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - dermal Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage Skin Sens. — Skin sensitization

Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the

International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Article number Art., Art. no.

ASTM ASTM International (American Society for Testing and Materials)

Acute Toxicity Estimate ATE

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

body weight bw

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMFI Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon

dw dry weight

for example (abbreviation of Latin 'exempli gratia'), for instance e.a.

EbCx, EyCx, EbLx (x = 10, 50)Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

European Community EC ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

FΝ European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)



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Scheibenfrostschutz Konzentrat-60° C

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

Global warming potential **GWP**

Adsorption coefficient of organic carbon in the soil Koc

octanol-water partition coefficient Kow

IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Log Kow, Log Pow Logarithm of octanol-water partition coefficient

Limited Quantities 10

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PΕ Polyethylene

PNEC Predicted No Effect Concentration

parts per million ppm Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List REACH-IT List-No. Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

United Nations Recommendations on the Transport of Dangerous Goods **UN RTDG**

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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