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Revision date / version: 01.11.2021 / 0002

Replacing version dated / version: 14.07.2021 / 0001

Valid from: 01.11.2021 PDF print date: 01.11.2021 Clear View Winter concentrate 5 l

Art.: 9101025

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

1.1 Product identifier

Clear View Winter concentrate 5 l

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

Cleaning product

for the windscreen washer

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG

Salzstr. 51

74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

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 (BRC)

+1 872 5888271 (BRC)

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. 3 H226-Flammable liquid and vapour.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP) $\,$





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H226-Flammable liquid and vapour.

P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

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 %).

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 %	30-<50
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 2, H225
(CLP), M-factors	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 %	5-<10					





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Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP), M-factors	STOT RE 2, H373 (kidneys) (oral)

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.

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.

Eye 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.

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

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

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

5.3 Advice for firefighters





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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.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

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.





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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.

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name Eth	anol			Content %:30-<50
WEL-TWA: 1000 ppm (1920 m	ng/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 D	FG (E)
		(Solvent mixtures) - 2013, 2002 - EU project		
	-	BC/CEN/ENTR/000/2002-16 card 63-2 (2004))	
		DFG Meth. Nr. 2 (D) (Loesungsmittelgemische	e) - 201	3 - EU project
	-	BC/CEN/ENTR/000/2002-16 card 63-2 (2004))	
		DFG Meth. Nr. 3 (D) (Loesungsmittelgemische	e) - 201	3 - EU project
	-	BC/CEN/ENTR/000/2002-16 card 63-2 (2004))	- 0
BMGV:		Other information	:	

DIVIOV	Other information				
©® Chemical Name	Ethanediol			Content %:5-<10	
WEL-TWA: 10 mg/m3 (pa	articulate), 52	WEL-STEL: 104 mg/m3 (vapour)	-		
mg/m3 (vapour) (WEL), 20	ppm (52	(WEL), 40 ppm (104 mg/m3) (EU)			
mg/m3) (EU)					
Monitoring procedures:	-	Draeger - Ethylene Glycol 10 (5) (81 01 33	51)		
	-	Compur - KITA-232 SA (502 342)			
	_	Compur - KITA-232 SB (550 267)			
	_	NIOSH 5500 (ETHYLENE GLYCOL) - 1	993		
	_	NIOSH 5523 (GLYCOLS) - 1996			
		OSHA PV2024 (Ethylene glycol) - 1999 -	EU proj	ject	
	_	BC/CEN/ENTR/000/2002-16 card 11-2 (2	004)		
BMGV:		Other informa	ation: S	Sk (particulate,	
		vapour)		*	





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Chemical Name Glycerine				Content %:
WEL-TWA: 10 mg/m3 (mist)	WEL-STEL:	-		
Monitoring procedures:			·	
BMGV:			Other information:	

Ethanol	E	T-CC4 1 1/1	Danist	T 7-1	T I24	NT.4
Area of application	Exposure route / Environmental	Effect on health	Descript	Value	Unit	Note
	compartment		or			
	Environment -		PNEC	0,96	mg/l	
	freshwater		FNEC	0,90	IIIg/I	
	Environment - marine		PNEC	0,79	mg/l	
	Environment - marme Environment - water,		PNEC	2,75	mg/l	
	sporadic		TNEC	2,73	111g/1	
	(intermittent) release					
	Environment -		PNEC	580	mg/l	
	sewage treatment		THE	300	1115/1	
	plant					
	Environment -		PNEC	3,6	mg/kg	
	sediment, freshwater			- , -	00	
	Environment - soil		PNEC	0,63	mg/kg	
					dry	
					weight	
	Environment - oral		PNEC	0,38	g/kg	
	(animal feed)				feed	
	Environment -		PNEC	2,9	mg/kg	
	sediment, marine				dry	
					weight	
Consumer	Human - dermal	Short term, local	DNEL	950	mg/m3	
		effects				
Consumer	Human - inhalation	Long term,	DNEL	114	mg/m3	
		systemic effects				
Consumer	Human - oral	Long term,	DNEL	87	mg/kg	
C	TT 1 1	systemic effects	DNE	20.5		
Consumer	Human - dermal	Long term,	DNEL	206	mg/kg	
Comazaman	Human - inhalation	systemic effects	DMEI	050	bw/d	
Consumer	Human - innaiation	Short term, local effects	DNEL	950	mg/m3	
Workers / employees	Human - dermal		DNEL	343	ma/lea	
workers / employees	11uman - dermai	Long term, systemic effects	DNEL	343	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term,	DNEL	950	mg/m3	
vi orkers / employees	11uman - milalation	systemic effects	DIVEL	930	mg/ms	
Workers / employees	Human - inhalation	Short term, local	DNEL	1900	mg/m3	
" orkers / employees	Taman imaaaton	effects	DITLE	1700	1115/1113	

Ethanediol						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					





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	Environment -		PNEC	10	mg/l
	freshwater 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) release		PNEC	10	mg/l
	Environment - sediment, freshwater		PNEC	37	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

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





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Workers / employees	Human - inhalation	Long term, local	DNEL	56	mg/m3	
		effects				

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).

 $(8) = Inhalable\ fraction\ (2017/164/EU,\ 2017/2398/EU).\ (9) = Respirable\ fraction\ (2017/164/EU,\ 2017/2398/EU).$ $(10) = Short\text{-term}\ exposure\ limit\ value\ in\ relation\ to\ a\ reference\ period\ of\ 1\ minute\ (2017/164/EU).\ |\ BMGV=Biological\ monitoring\ guidance\ value\ EH40.\ BGW="Biologischer\ Grenzwert"\ (biological\ limit\ value,\ Germany)\ |\ Other\ information:\ Sen=Capable\ of\ causing\ occupational\ asthma.\ Sk=Can\ be\ absorbed\ through\ skin.\ Carc=Capable\ of\ causing\ cancer\ and/or\ heritable\ genetic\ damage.$

** = 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.

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).

If applicable

Protective gloves in butyl rubber (EN ISO 374).

Protective gloves made of fluorocarbon rubber (EN ISO 374).

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:





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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.

Skin protection - Other:

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

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

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 manufacturer.

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

9.1 Information on basic physical and chemical properties

Physical state: Liquid
Colour: Blue
Odour: Lemon

Melting point/freezing point:

There is no information available on this parameter.

Boiling point or initial boiling point and boiling range:

There is no information available on this parameter.

Flammability: Flammable

Lower explosion limit: There is no information available on this parameter.

Upper explosion limit: There is no information available on this parameter.

Flash point: 23 °C

Auto-ignition temperature: There is no information available on this parameter.

Decomposition temperature: There is no information available on this parameter.

pH: 7,9





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Kinematic viscosity: There is no information available on this parameter.

Solubility: Soluble

Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

Vapour pressure: There is no information available on this parameter.

Density and/or relative density: 0,93 g/cm³

Relative vapour density: There is no information available on this parameter.

Particle characteristics: Does not apply to liquids.

Explosives: When using: development of explosive vapour/air

No

mixture possible.

Oxidising liquids:

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

9.2 Other information

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 alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

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).

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Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	ATE	>2000	mg/kg			calculated	
route:						value	
Acute toxicity, by						n.d.a.	
dermal route:							
Acute toxicity, by						n.d.a.	
inhalation:							
Skin corrosion/irritation:						n.d.a.	
Serious eye						n.d.a.	
damage/irritation:							
Respiratory or skin						n.d.a.	
sensitisation:							
Germ cell mutagenicity:						n.d.a.	





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Carcinogenicity:		n.d.a.
Reproductive toxicity:		n.d.a.
Specific target organ		n.d.a.
toxicity - single		
exposure (STOT-SE):		
Specific target organ		n.d.a.
toxicity - repeated		
exposure (STOT-RE):		
Aspiration hazard:		n.d.a.
Symptoms:		n.d.a.

Ethanol						
Toxicity / effect	Endpoi nt	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 Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative





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Aspiration hazard:	Human	No
	being	indications
		of such an
		effect.
Symptoms:		respiratory
		distress,
		drowsiness,
		unconsciousn
		ess, drop in
		blood
		pressure,
		vomiting,
		coughing,
		headaches,
		intoxication,
		drowsiness,
		mucous
		membrane
		irritation,
		dizziness,
		nausea

Ethanediol	Ethanediol									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes				
	nt									
Acute toxicity, by oral	LD50	1600	mg/kg	Human						
route:				being						
Acute toxicity, by	LD50	9530	mg/kg	Rabbit						
dermal route:										
Acute toxicity, by	LD50	>3500	mg/kg	Mouse						
dermal route:										
Skin corrosion/irritation:				Rabbit		Not irritant				
Serious eye				Rabbit		Not irritant				
damage/irritation:										
Respiratory or skin				Human	(Patch-Test)	Negative				
sensitisation:				being						
Germ cell mutagenicity:				Salmonella	OECD 471	Negative				
				typhimuri	(Bacterial Reverse					
				um	Mutation Test)					
Germ cell mutagenicity:				Rat	in vivo	Negative				
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat						
			bw/d							
Symptoms:						ataxia,				
						breathing				
						difficulties,				
						unconsciousn				
						ess, cramps,				
						fatigue				

Glycerine





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Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat		
route:						
Acute toxicity, by	LD50	>10000	mg/kg	Rabbit		
dermal route:						
Skin corrosion/irritation:				Rabbit	IUCLID Chem.	Not irritant
					Data Sheet (ESIS)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	,	Not
sensitisation:						sensitizising
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
Germ cen matagemeny.				typhimuri	(Bacterial Reverse	1 (oguit) o
				um	Mutation Test)	
Reproductive toxicity:	NOAEL	2000	mg/kg/	GIII	matter resty	Negative
reproductive termenty.	1,01122	2000	d			1 (oguar (o
Specific target organ	NOAEL	3,91	mg/l	Rat		14d
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						Negative
Symptoms:						abdominal
						pain,
						drowsiness,
						diarrhoea,
						vomiting,
						headaches,
						mucous
						membrane
						irritation,
						nausea

11.2. Information on other hazards

Clear View Winter cor	ncentrate 5 l				_				
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Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Endocrine disrupting						Does not			
properties:						apply to			
						mixtures.			
Other information:						No other			
						relevant			
						information			
						available on			
						adverse			
						effects on			
						health.			

Ethanol





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Toxicity / effect	Endpoi nt	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).

Clear View Winter concentrate 5 l								
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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to							n.d.a.	
fish:								
12.1. Toxicity to							n.d.a.	
daphnia:								
12.1. Toxicity to							n.d.a.	
algae:								





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12.2 Damsi-t		ı	The
12.2. Persistence			The
and degradability:			surfactant(s)
			contained in
			this mixture
			complies(co
			mply) with
			the
			biodegradabi
			lity 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.			n.d.a.
Bioaccumulative			
potential:			
12.4. Mobility in			n.d.a.
soil:			
			- d -
12.5. Results of			n.d.a.
PBT and vPvB			
assessment			
12.6. Endocrine			Does not
disrupting			apply to
properties:			mixtures.
properties.			mintures.





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12.7. Other					No
adverse effects:					information
					available on
					other
					adverse
					effects on
					the
					environment.
Other information:					DOC-
					elimination
					degree(comp
					lexing
					organic
					substance)>=
					80%/28d:
					n.a.
Other information:	AOX	0	%		According
					to the recipe,
					contains no
					AOX.

Ethanol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	13000	mg/l	Oncorhynchus	OECD 203	
fish:					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	120h	250	mg/l	Brachydanio	OECD 212	
fish:	EL				rerio	(Fish, Short-	
						term Toxicity	
						Test on	
						Embryo and	
						Sac-fry	
						Stages)	
12.1. Toxicity to	EC50	48h	5414	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	10d	9,6	mg/l	Ceriodaphnia		References
daphnia:	EL				spec.		
12.1. Toxicity to	EC50	72h	275	mg/l	Chlorella	OECD 201	
algae:					vulgaris	(Alga,	
						Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	97	%	activated	OECD 301 B	Readily
and degradability:					sludge	(Ready	biodegradabl
						Biodegradabil	e
						ity - Co2	
						Evolution	
						Test)	





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12.3. Bioaccumulative potential:	Log Pow		(- 0,35) - (- 0,32)				Bioaccumula tion is unlikely (LogPow < 1).
12.3. Bioaccumulative potential:	BCF		0,66 - 3,2				
12.4. Mobility in soil:	H (Henry)		0,000				
12.4. Mobility in soil:	Koc		1,0				Highestimate d
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/NO EL		280	mg/l	Lemna gibba	OECD 201 (Alga, Growth Inhibition Test)	

Ethanediol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to	EC20	30min	>1995	mg/l	activated	OECD 209	
bacteria:					sludge	(Activated	
						Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	
12.1. Toxicity to	LC50	96h	>1000	mg/l	Pimephales	IUCLID	
fish:			0		promelas	Chem. Data	
						Sheet (ESIS)	
12.1. Toxicity to	NOEC/NO	7d	15380	mg/l	Pimephales	U.S. EPA	
fish:	EL				promelas	ECOTOX	
						Database	





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12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to daphnia:	NOEC/NO EL		8590	mg/l	Daphnia magna	U.S. EPA ECOTOX Database	
12.1. Toxicity to algae:	EC50	96h	6500- 7500	mg/l	Pseudokirchne riella subcapitata		
12.2. Persistence and degradability:		28d	56	%		OECD 301 C (Ready Biodegradabil ity - Modified MITI Test (I))	
12.2. Persistence and degradability:		10d	90- 100	%		OECD 301 A (Ready Biodegradabil ity - DOC Die-Away Test)	Readily biodegradabl e
12.3. Bioaccumulative potential:	Log Pow		-1,36				Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	16h	>1000	mg/l	Pseudomonas putida	IUCLID Chem. Data Sheet (ESIS)	
Other information:	BOD5		0,78	g/g			IUCLID

Glycerine							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence	BOD5		0,87	g/g			
and degradability:							
12.2. Persistence	COD		1,16	g/g			
and degradability:							
12.1. Toxicity to	LC50	96h	>	mg/l	Carassius		
fish:			5000	_	auratus		
12.1. Toxicity to	EC50	48h	>1000	mg/l	Daphnia		
daphnia:			0		magna		
12.1. Toxicity to	EC5	72h	3200	mg/l			Entosiphon
daphnia:							sulcatum
12.1. Toxicity to	EC50		2900	mg/l	Chlorella		
algae:					vulgaris		





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				1	T.		
12.2. Persistence		14d	63	%		OECD 301 C	
and degradability:						(Ready	
						Biodegradabil	
						ity - Modified	
						MITI Test (I))	
12.2. Persistence	BOD/COD		>60	%		\ //	
and degradability:							
12.2. Persistence	BOD5/CO		> 50	%			
and degradability:	D						
12.2. Persistence	DOC		>70	%			Readily
and degradability:							biodegradabl
							e
12.3.	Log Pow		-1,75			OECD 107	A notable
Bioaccumulative			· ·			(Partition	biological
potential:						Coefficient (n-	accumulation
Potential						octanol/water)	potential is
						- Shake	not to be
						Flask Method)	expected
						Trask Method)	(LogPow 1-
12.5. Results of							3). No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC5	16h	>	mg/l	Pseudomonas		
bacteria:			10000		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)

20 01 29 detergents 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.

15 01 02 plastic packaging





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General statements

14.1. UN number or ID number: 1170

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1170 ETHANOL, MIXTURE

14.3. Transport hazard class(es):314.4. Packing group:IIIClassification code:F1LO:5 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D/E

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

ETHANOL MIXTURE

14.3. Transport hazard class(es):314.4. Packing group:IIIEmS:F-E, S-DMarine Pollutant:n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Ethanol mixture

14.3. Transport hazard class(es): 3
14.4. Packing group: III

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 maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

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.):











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Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower- tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper- tier 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.

47,7 %

Directive 2010/75/EU (VOC):

C 2010/13/E0 (VOC).

REGULATION (EC) No 648/2004

less than 5 % anionic surfactants

perfumes LIMONENE CITRAL

2-BROMO-2-NITROPROPANE-1,3-DIOL

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1-16

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 (EC)	Evaluation method used
No. 1272/2008 (CLP)	
Flam. Liq. 3, H226	Classification based on test data.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.

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

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Flam. Liq. — Flammable liquid

Eye Irrit. — Eye irritation

Acute Tox. — Acute toxicity - oral

STOT RE — Specific target organ toxicity - repeated exposure



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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:

acc., acc. to according, according to

ADR 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 Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

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

bw body weight

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

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

dw dry weight

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

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

EC European Community

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



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EN 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)

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

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPACInternational 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)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.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

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No

1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

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

RID 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





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UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

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.