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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.11.2018 / 0004

Replacing version dated / version: 09.05.2017 / 0003

Valid from: 19.11.2018 PDF print date: 19.11.2018 Hand protection gel 250 ml

Art.: 219326

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Hand protection gel 250 ml Art.: 219326

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

Relevant identified uses of the substance or mixture:

Cosmetic preparation

Skin cleaning and protection

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

(B)

Albert Berner Deutschland GmbH, Bernerstrasse 4, 74653 Künzelsau, Germany Phone:+49 79 40 12 10, Fax:+49 79 40 12 13 00 info@berner.de, www.berner.de

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

Qualified person's e-mail address: Productsafety.Chemicals@berner-group.com 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) 221 80260 889 (09:00 – 17:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)



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Hazard class Hazard category Hazard statement

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

2.2 Label elements

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

Cosmetics regulations are to be applied.



Danger

H225-Highly flammable liquid and vapour.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233-Keep container tightly closed.

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 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

Ethanol	Substance with specific conc. limit(s) acc to REACh-registration				
Registration number (REACH)	01-2119457610-43-XXXX				
Index	603-002-00-5				
EINECS, ELINCS, NLP	200-578-6				
CAS	64-17-5				
content %	50-70				
Classification according to Regulation (EC)	Flam. Liq. 2, H225				
1272/2008 (CLP)	Eye Irrit. 2, H319				



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Propan-2-ol	
Registration number (REACH)	
Index	603-117-00-0
EINECS, ELINCS, NLP	200-661-7
CAS	67-63-0
content %	1-10
Classification according to Regulation (EC)	Flam. Liq. 2, H225
1272/2008 (CLP)	Eye Irrit. 2, H319
	STOT SE 3, H336

(I)-alpha-bisabolol	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	245-423-3
CAS	23089-26-1
content %	0,1-<1
Classification according to Regulation (EC)	Aquatic Chronic 2, H411
1272/2008 (CLP)	

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

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

Skin contact

Wash in water.

Eve contact

Remove contact lenses.

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

Inaestior

Rinse the mouth thoroughly with water.

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

SECTION 5: Firefighting measures



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5.1 Extinguishing media

Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

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

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

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.

Do not pour down the drain undiluted.

6.3 Methods and material for containment and cleaning up

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

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

Avoid contact with eyes.

Keep away from sources of ignition - Do not smoke.

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.



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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.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

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 in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

W			
® Chemical Name	Ethanol		Content
			%:50-70
WEL-TWA: 1000 ppm (19	920 mg/m3)	WEL-STEL:)
Monitoring procedures:	-	Compur - KITA-104 SA (549 210)	
	-	Draeger - Alcohol 25/a Ethanol (81 01 631)	
		DFG (D) (Loesungsmittelgemische), Methode	
		(Solvent mixtures) - 1998, 2002 - EU project	
	-	BC/CEN/ENTR/000/2002-16 card 63-2 (2004	
BMGV:		Other information):
®			Content
Chemical Name	Propan-2-ol		%:1-10
WEL-TWA: 400 ppm (999	9 mg/m3)	WEL-STEL: 500 ppm (1250 mg/m3)	
Monitoring procedures:	-	Compur - KITA-122 SA(C) (549 277)	
	-	Compur - KITA-150 U (550 382)	
	-	Draeger - Alcohol 25/a i-Propanol (81 01 631	
		DFG (D) (Loesungsmittelgemische), DFG (E)	
		6) - 1998, 2002 - EU project BC/CEN/ENTR/0	000/2002-16 card
	-	66-3 (2004)	
	-	Draeger - Alcohol 100/a (CH 29 701)	
BMGV:		Other information):
Chemical Name	Glycerine	**	Content %:
WEL-TWA: 10 mg/m3 (m		WEL-STEL:	(i)
Monitoring procedures:	•		
BMGV:		Other information	1:
5%		**************************************	

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 (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU,



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2017/2398/EU). | 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.

8.2 Exposure controls

Area of application	Exposure route / Environmental compartment	Effect on health	Descrip tor	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	
	Environment - sediment, freshwater		PNEC	3,6	mg/kg	
	Environment - soil		PNEC	0,63	mg/kg dry weight	
	Environment - oral (animal feed)		PNEC	0,72	mg/kg feed	
	Environment - sediment, marine		PNEC	2,9	mg/kg dry weight	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	950	mg/m3	
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	3 6
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1900	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	950	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	343	mg/kg bw/d	



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Propan-2-ol						
Area of application	Exposure route /	Effect on health	Descrip	Value	Unit	Note
	Environmental		tor			
	compartment					
	Environment -		PNEC	140,9	mg/l	
	freshwater			,	5.	
	Environment - marine		PNEC	140,9	mg/l	
	Environment -		PNEC	552	mg/kg	
	sediment, freshwater] 3, 3	
	Environment -		PNEC	552	mg/kg	
	sediment, marine				5. 5	
	Environment - soil		PNEC	28	mg/kg	
	Environment -		PNEC	2251	mg/l	
	sewage treatment					
	plant					
	Environment - water,		PNEC	140,9	mg/l	
	sporadic					
	(intermittent) release					
Consumer	Human - dermal	Long term	DNEL	319	mg/kg	(1 d)
Consumer	Human - inhalation	Long term	DNEL	89	mg/m3	
Consumer	Human - oral	Long term	DNEL	26	mg/kg	(1 d)
Workers / employees	Human - dermal	Long term	DNEL	888	mg/kg	(1 d)
Workers / employees	Human - inhalation	Long term	DNEL	500	mg/m3	

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

8.2.1 Appropriate engineering controls

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



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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. BS EN 14042.

BS 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:

Normally not necessary.

Skin protection - Hand protection:

Normally not necessary.

Skin protection - Other:

Normally not necessary.

Respiratory protection:

Normally not necessary.

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: Gel, Viscous
Colour: Transparent
Odour: Characteristic



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Odour threshold: Not determined

pH-value: 6,5-7,5

Melting point/freezing point: -117 °C (Ethanol)

Initial boiling point and boiling range: ~80 °C

Flash point: <21 °C (Pensky-Martens, closed cup)

Evaporation rate: Not determined

Flammability (solid, gas): n.a.

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Vapour density (air = 1):

Density:

3,5 Vol-% (Ethanol)

15 Vol-% (Ethanol)

~5,7 kPa (Ethanol)

Not determined

0,88 g/ml

Bulk density: 0,88

Solubility(ies): Not determined

Water solubility: Soluble

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

-0,31 (Ethanol)

Not determined

Not determined

4500 mPas

Explosive properties: Product is not explosive. Possible build up of

explosive/highly flammable vapour/air mixture.

Oxidising properties: No

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined Conductivity: Not determined Surface tension: Not determined

Solvents content: 60 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Not to be expected

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.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



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

Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by						n.d.a.
inhalation:						
Skin						n.d.a.
corrosion/irritation:						
Serious eye						n.d.a.
damage/irritation:						
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						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.
Other information:						Classificat
						according
						to
						calculation
						procedure

Ethanol	Ethanol						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	10470	mg/kg	Rat	OECD 401 (Acute		
route:					Oral Toxicity)		
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute		
dermal route:					Dermal Toxicity)		
Acute toxicity, by	LC50	124,7	mg/l/4	Rat	OECD 403 (Acute		
inhalation:			h		Inhalation		
					Toxicity)		
Skin				Rabbit	OECD 404 (Acute	Not irritant	
corrosion/irritation:					Dermal		
					Irritation/Corrosio		
					n)		
Serious eye				Rabbit	OECD 405 (Acute	Irritant	
damage/irritation:					Eye		
					Irritation/Corrosio		
					n)		



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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
Carcinogenicity:	NOAEL	>3000	mg/kg	Rat	OECD 451 (Carcinogenicity Studies)	24 mon
Reproductive toxicity:	NOAEL	5200	mg/kg bw/d	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAL	>20	mg/l	Rat	OECD 403 (Acute Inhalation Toxicity)	Male
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	1730	mg/kg/ d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Female
Aspiration hazard:				Human being		No indications of such an effect.



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2 2	 <u> </u>	
Symptoms:		respiratory
		distress,
		drowsiness,
		unconscious
		ness, drop
		in blood
		pressure,
		vomiting,
		coughing,
		headaches,
		intoxication,
		drowsiness,
		mucous
		membrane
		irritation,
		dizziness,
	3	nausea
Experiences in humans:		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.

Propan-2-ol						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	4570-5840	mg/kg	Rat	OECD 401 (Acute	
route:					Oral Toxicity)	
Acute toxicity, by	LD50	13900	mg/kg	Rabbit	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Acute toxicity, by	LC50	30	mg/l/4	Rat		
inhalation:			h			



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89	Ç	()	¥			
Skin				Rabbit	OECD 404 (Acute	Not irritant
corrosion/irritation:					Dermal	
					Irritation/Corrosio	
					n) '	
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:				Rabbie	Eye	2,0 1
damage/irritation:					Irritation/Corrosio	
5					n)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not
sensitisation:	9		2		Sensitisation)	sensitizising
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
				typhimuri		
				um		
Carcinogenicity:	3					Negative
Reproductive toxicity:						Negative
Specific target organ			,			Target
toxicity - repeated						organ(s):
exposure (STOT-RE):						liver
Aspiration hazard:						No
Symptoms:						breathing
Symptoms.						difficulties,
						unconscious
						ness,
						vomiting,
						headaches,
						fatigue,
						dizziness,
						nausea
Specific target organ	NOAEL	900	mg/kg	Rat	OECD 408	
toxicity - repeated			3, 3		(Repeated Dose	
exposure (STOT-RE),					90-Day Oral	
oral:					Toxicity Study in	
orar.					Rodents)	
	l	ļ			Rouents)	

(I)-alpha-bisabolol	(I)-alpha-bisabolol											
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes						
to .	nt			8								
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat								
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)	Not irritant						
Respiratory or skin sensitisation:	9			Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising						

Glycerine	<i>a</i>	2 8				×
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					



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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/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:	NOAEL	2000	mg/kg/			Negative
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

SECTION 12: Ecological information

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

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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:					5						
12.2. Persistence							n.d.a.				
and degradability:											
12.3.							n.d.a.				
Bioaccumulative											
potential:											
12.4. Mobility in							n.d.a.				
soil:											



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12.5. Results of PBT and vPvB				n.d.a.
assessment			5	
12.6. Other				n.d.a.
adverse effects:				

Ethanol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		-0,32		3		Bioaccumula tion is unlikely (LogPow < 1).
12.1. Toxicity to daphnia:	NOEC/NOE L	10d	9,6	mg/l	Ceriodaphnia spec.		
12.1. Toxicity to fish:	LC50	96h	13000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	12340	mg/l	Daphnia magna		
12.2. Persistence and degradability:			97	%		OECD 301 B (Ready Biodegradabili ty - Co2 Evolution Test)	Readily biodegradabl e
12.3. Bioaccumulative potential:	BCF		0,66 - 3,2				
12.1. Toxicity to algae:	EC50	72h	275	mg/l	Chlorella vulgaris	OECD 201 (Alga, Growth Inhibition Test)	
Other organisms:	NOEC/NOE L		280	mg/l	Lemna gibba	OECD 201 (Alga, Growth Inhibition Test)	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.4. Mobility in soil:	H (Henry)		0,000 138				
Toxicity to bacteria:			440	mg/l			
Other information:			1,9	g/g			
Other information:	BOD5		1	g/g			

Propan-2-ol	· · · · · · · · · · · · · · · · · · ·		a va		50	58	2
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Leuciscus idus		
12.1. Toxicity to daphnia:	EC50	48h	2285	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmu s subspicatus		
12.2. Persistence and degradability:		21d	95	%		OECD 301 E (Ready Biodegradabili ty - Modified OECD Screening Test)	
12.2. Persistence and degradability:			99,9	%		OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units)	
12.3. Bioaccumulative potential:	Log Pow		0,05			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	
12.5. Results of PBT and vPvB assessment						,	No PBT substance, No vPvB substance
12.4. Mobility in soil:	Koc		1,1				Expert judgement
Toxicity to bacteria:	EC50		>100 0	mg/l	activated sludge		<u> </u>
Other information:			2,4	g/g			
Other information:			53	%			
Other information:	COD		96	%	J,		References
Other information:	BOD		1171	mg/g			

(I)-alpha-bisabolol											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to	LC50	96h	>4,6-	mg/l	Leuciscus idus						
fish:	,		<10								
12.1. Toxicity to	EC50	48h	1,3	mg/l	Daphnia	OECD 202					
daphnia:					magna	(Daphnia sp.					
·						Acute					
						Immobilisatio					
		,				n Test)					



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12.2. Persistence	28d	70-80	%	OECD 301 F	Readily
and degradability:				(Ready	biodegradabl
				Biodegradabili	e
				ty -	
				Manometric	
				Respirometry	
		also also also also also also also also		Test)	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	>	mg/l	Carassius		
fish:			5000	_	auratus		
12.1. Toxicity to	EC50	48h	>100	mg/l	Daphnia		
daphnia:			00		magna		
12.1. Toxicity to daphnia:	EC5	72h	3200	mg/l			Entosiphon sulcatum
12.1. Toxicity to algae:	EC50		2900	mg/l	Chlorella vulgaris		
12.2. Persistence and degradability:		14d	63	%		OECD 301 C (Ready Biodegradabili ty - Modified MITI Test (I))	
12.2. Persistence and degradability:	BOD/COD		>60	%			
12.2. Persistence	BOD5/CO		> 50	%			
and degradability:	D						,
12.2. Persistence and degradability:	DOC		>70	%			Readily biodegradab e
12.3. Bioaccumulative potential:	Log Pow		-1,76				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							n.a.
Toxicity to	EC5	16h	>	mg/l	Pseudomonas		
bacteria:			10000		putida		
Other information:	BOD5		0,87	g/g			
Other information:			1,16	g/g			
Other information:			1,217	g/g			Readily biodegradal e

SECTION 13: Disposal considerations



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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)

07 06 01 aqueous washing liquids and mother liquors

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

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.

Residues may present a risk of explosion.

SECTION 14: Transport information

General statements

14.1. UN number: 1993

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL, ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es): 14.4. Packing group: IIIClassification code: F1 LQ: 5 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (ETHANOL, ISOPROPYL ALCOHOL) 14.3. Transport hazard class(es): 3

14.4. Packing group: IIIEmS: F-E, S-E Marine Pollutant:

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Flammable liquid, n.o.s. (ETHANOL, ISOPROPYL ALCOHOL) 14.3. Transport hazard class(es): 3 14.4. Packing group:

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.

















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Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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 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.):

(others may also need to be considered decorating to storage) nationing etc.)			
Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred	substances as referred
		to in Article 3(10) for	to in Article 3(10) for
		the application of -	the application of -
		Lower-tier requirements	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.

Directive 2010/75/EU (VOC): ~ 70,2 % Directive 2010/75/EU (VOC): 617,8 g/l

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

8

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) No. 1272/2008	Evaluation method used	
(CLP)		
Flam. Liq. 2, H225	Classification based on test data.	
**************************************	- Classification based on test adda	



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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.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic — Hazardous to the aquatic environment - chronic

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Any abbreviations and acronyms used in this document:



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AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (=

European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

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

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and

Other Fluids

CESIOComité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

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

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

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

EC European Community

ECHA European Chemicals Agency

EEA European Economic Area

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

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

ERC Environmental Release Categories

ES Exposure scenario



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etc. et cetera

EU European Union

EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

LD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill

LDLo Lethal Dose Low

LOAELLowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

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

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration

NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration

POCP Photochemical ozone creation potential

ppm parts per million PROC Process category PTFE Polytetrafluorethylene

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

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



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

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

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.