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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0003
Replacing version dated / version: 22.04.2021 / 0002
Valid from: 01.11.2021
PDF print date: 01.11.2021
Klima Refresh (allergenfrei)

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

Klima Refresh (allergenfrei)

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Cleaner 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				
Eye Irrit.	2	H319-Causes serious eye irritation.				
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.				
Aerosol	1	H222-Extremely flammable aerosol.				
Aerosol	1	H229-Pressurised container: May burst if heated.				

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



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Danger

H319-Causes serious eye irritation. H412-Harmful to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P280-Wear eye protection / face protection. P337+P313-If eye irritation persists: Get medical advice / attention. P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501-Dispose of contents / container to an approved waste disposal facility.

Without adequate ventilation, formation of explosive mixtures may be possible.

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

Aerosol

3.1 Substances

n.a. **3.2 Mixtures**



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Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-350-2
CAS	85409-22-9
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1, H410 (M=1)

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

Typically no exposure pathway.

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

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

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 Oxides of nitrogen Hydrogen chloride Toxic gases Danger of bursting (explosion) when heated Explosive vapour/air or gas/air mixtures.

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.



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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.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

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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

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

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

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

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Without adequate ventilation, formation of explosive mixtures may be possible. Active substance:

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

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 contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

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.

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.

Observe special regulations for aerosols! Observe special storage conditions.

Do not store with flammable or self-igniting materials.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well-ventilated place.

Store cool.



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7.3 Specific end use(s) No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Ethanol					Content %:10-20
WEL-TWA: 1000 ppm (1920 n		EL-STEL:				
Monitoring procedures:		ger - Alcohol 25/a Ethanol	· /			
		our - KITA-104 SA (549 21				
		(D) (Loesungsmittelgemis				nixtures) - 2013,
		- EU project BC/CEN/ENT				
		Meth. Nr. 2 (D) (Loesungs		- 2013 - El	J project	
		EN/ENTR/000/2002-16 ca				
		Meth. Nr. 3 (D) (Loesungs		- 2013 - EL	J project	
DMOV/	- BC/C	EN/ENTR/000/2002-16 ca				
BMGV:			Other infor	mation:	-	
GB Chemical Name	Propan-2-ol					Content %:10-
						<20
WEL-TWA: 400 ppm (999 mg/		EL-STEL: 500 ppm (125				
Monitoring procedures:		ger - Alcohol 25/a i-Propar				
		our - KITA-122 SA(C) (549	,			
		our - KITA-150 U (550 382				
		(D) (Loesungsmittelgemis			ures 6) - 20'	13, 2002 - EU
		ct BC/CEN/ENTR/000/200		2004)		
		H 1400 (ALCOHOLS I) - 1				
		H 2549 (VOLATILE ORG		NDS (SCRE	:ENING)) - 1	996
BMGV:	- Drae	ger - Alcohol 100/a (CH 29	Other infor	motion		
BIVIGV:			Other Infor	nation:	-	
Chemical Name	Butane					Content %:
WEL-TWA: 600 ppm (1450 mg		EL-STEL: 750 ppm (181				
Monitoring procedures:		our - KITA-221 SA (549 45	,			
	- OSH	A PV2010 (n-Butane) - 19				
BMGV:			Other infor	mation:	-	
Ethanol						
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,96	mg/l	
	Environment morine		DNEC	0.70	ma/l	

	compartment				
	Environment - freshwater		PNEC	0,96	mg/l
	Environment - marine		PNEC	0,79	mg/l
	Environment - water, sporadic (intermittent)		PNEC	2,75	mg/l
	release 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	0,38	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



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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

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	140,9	mg/l	
	Environment - marine		PNEC	140,9	mg/l	
	Environment - sediment, freshwater		PNEC	552	mg/kg dw	
	Environment - sediment, marine		PNEC	552	mg/kg dw	
	Environment - soil		PNEC	28	mg/kg dw	
	Environment - sewage treatment plant		PNEC	2251	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	140,9	mg/l	
	Environment - oral (animal feed)		PNEC	160	mg/kg feed	
Consumer	Human - dermal	Long term, systemic effects	DNEL	319	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	89	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	888	mg/kg bw/day	
Workers / employees	kers / employees Human - inhalation		DNEL	500	mg/m3	

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	0,0009	mg/l	
	Environment - marine		PNEC	0,00096	mg/l	
	Environment - sporadic (intermittent) release		PNEC	0,00016	mg/l	
	Environment - sediment, freshwater		PNEC	12,27	mg/kg	
	Environment - sediment, marine		PNEC	13,09	mg/kg	
	Environment - sewage treatment plant		PNEC	0,4	mg/l	
	Environment - soil		PNEC	7	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,64	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	3,4	mg/kg bw/day	



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Consumer	Human - oral	Long term, systemic	DNEL	3,4	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,96	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	5,7	mg/kg bw/day	

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.

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

Eye/face protection:

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

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,4 Permeation time (penetration time) in minutes: >= 480 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 hand cream recommended.

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

Respiratory protection: Normally not necessary. If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:



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Not applicable

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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: Colour: 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: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives:

Oxidising liquids: Evaporation rate: Solvents content:

Aerosol. Active substance: liquid. Colourless Characteristic There is no information available on this parameter. n.a. Does not apply to aerosols. 1.5 Vol-% 15 Vol-% Does not apply to aerosols. 365 °C There is no information available on this parameter. Mixture is non-soluble (in water). Does not apply to aerosols. Not miscible Does not apply to mixtures. 3200 hPa (20°C) 0,65 g/cm3 (20°C) Does not apply to aerosols. Does not apply to aerosols. Product is not explosive. Possible build up of explosive/highly

flammable vapour/air mixture. No n.a. 93,6 % (Organic solvents)

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 Pressure increase will result in danger of bursting. **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



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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).

Klima Refresh (allergenfrei)						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
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 - single exposure (STOT-SE):						n.d.a.
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	Irritant
					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)	
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)	
Aspiration hazard:				Human being		No indications of
-						such an effect.



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Symptoms:		respiratory
Symptoms.		
		distress,
		drowsiness,
		unconsciousness
		, 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	4570-5840	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	12800-13900	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	> 25	mg/l/6h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Acute toxicity, by inhalation:	LC50	46600	mg/l/4h	Rat		Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Carcinogenicity:						Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT-RE):						Target organ(s): liver
Aspiration hazard:						No
Symptoms:						breathing difficulties, unconsciousnes , vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	



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Kiima Keiresn (allergenirei)							
Specific torget orgen tovicity	NOAEL	5000		Det			
Specific target organ toxicity -	NOAEL	5000	ppm	Rat		Vapours (OECD	
repeated exposure (STOT-RE),						451)	
inhalat.:							
Quaternary ammonium compo							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	397,5	mg/kg	Rat	OECD 401 (Acute Oral		
					Toxicity)		
Acute toxicity, by dermal route:	LD50	3412,5	mg/kg	Rabbit			
Respiratory or skin				Guinea pig	Regulation (EC)	Sensitising (skin	
sensitisation:					440/2008 B.6 (SKIN	contact)	
					SENSITISATION)		
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative	
Com con matagementy.					Reverse Mutation Test)	noganio	
Symptoms:						respiratory	
						distress.	
						/	
Chapilia torrat array tavialty		47 5				coughing	
Specific target organ toxicity -	NOAEL	47,5	mg/kg/d		OECD 409 (Repeated		
repeated exposure (STOT-RE),					Dose 90-Day Oral		
oral:					Toxicity Study in Non-		
					Rodents)		
Butane							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat			
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative	
				typhimurium	Reverse Mutation Test)		
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative	
					Mammalian	-	
					Chromosome		
					Aberration Test)		
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro	Negative	
				5	Mammalian	- 5	
					Chromosome		
					Aberration Test)		
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negative	
Cermicel mutagementy.				T C C C C C C C C C C C C C C C C C C C	Erythrocyte	Negative	
					Micronucleus Test)		
Appiration hanardy					Microfiucieus rest)	Ne	
Aspiration hazard:						No atavia broathing	
Symptoms:						ataxia, breathing	
						difficulties,	
						drowsiness,	
						unconsciousness	
						, frostbite,	
						disturbed heart	
						rhythm,	
						headaches,	
						cramps,	
						intoxication,	
						dizziness,	
						nausea and	
						vomiting.	
Specific target organ toxicity -	NOAEL	21,394	mg/l	Rat	OECD 422 (Combined	vomung.	
	NOAEL	21,334	iiig/i	ival			
repeated exposure (STOT-RE),					Repeated Dose Tox.		
inhalat.:					Study with the		
					Reproduction/Developm.		
					Tox. Screening Test)		
	han haras						
11.2. Information on ot	ner nazaro	as					
Klima Refresh (allergenfrei)							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Endocrine disrupting properties:						Does not apply	
						to mixtures.	
L	1	1	1				



B Page 12 of 19 Safety data sheet accordi Revision date / version: 0 Replacing version dated / Valid from: 01.11.2021 PDF print date: 01.11.202	1.11.2021 / 000 version: 22.04.2	3		inex II			
Klima Refresh (allergenfre							
Other information:							No other relevant information available on adverse effects on health.
Ethanol							
Toxicity / effect Other information:	Endpo	oint Val	ue	Unit	Organism	Test method	Notes 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.
		SECTI	ON 12: I	Ecologi	cal informati	ion	
Possibly more information	on environmen	tal effects, s	ee Section 2	2.1 (classific	ation).		
Klima Refresh (allergent	irei)					Test methed	
Toxicity / effect 12.1. Toxicity to fish:	Endpoint	Time	Value	Unit	Organism	Test method	Notes n.d.a.
12.1. Toxicity to lish.							n.d.a.
12.1. Toxicity to algae: 12.2. Persistence and							n.d.a. n.d.a.
degradability: 12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environment.
				•			
Ethanol Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13000	mg/l	Organism Oncorhynchus mykiss		110162

Test)



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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
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: 12.5. Results of PBT and vPvB assessment	Кос		1,0				Highestimated 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)	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative	BCF		3,2				Low
potential:							
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Leuciscus idus		
12.1. Toxicity to fish:	LC50	96h	1400	mg/l	Lepomis		
					macrochirus		
12.1. Toxicity to daphnia:	EC50	48h	2285	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC50	16d	141	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus		
				_	subspicatus		
12.2. Persistence and		21d	95	%		OECD 301 E	Readily
degradability:						(Ready	biodegradable
-						Biodegradability -	
						Modified OECD	
						Screening Test)	
12.2. Persistence and			99,9	%		OECD 303 A	Readily
degradability:						(Simulation Test -	biodegradable
5 ,						Aerobic Sewage	0
						Treatment -	
						Activated Sludge	
						Units)	



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12.3. Bioaccumulative potential:	Log Pow		0,05			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Slight
12.4. Mobility in soil:	Koc		1,1				Expert judgement
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50		>1000	mg/l	activated sludge		
Toxicity to bacteria:	EC10	16h	1050	mg/l	Pseudomonas putida		
Other information:	ThOD		2,4	g/g			
Other information:	BOD5		53	%			
Other information:	COD		96	%			References
Other information:	COD		2,4	g/g			
Other information:	BOD		1171	mg/g			

Foxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	28d	0,0322	mg/l	Pimephales		
					promelas		
12.1. Toxicity to fish:	LC50	96h	0,515	mg/l	Lepomis	U.S. EPA 72-1	
					macrochirus		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,025	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,016	mg/l	Daphnia magna	Regulation (EC)	
						440/2008 C.2	
						(DAPHNIA SP.	
						ACUTE	
						IMMOBILISATION	
						TEST)	
12.1. Toxicity to algae:	ErC50	96h	0,03	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	95,5	%		OECD 301 B	
degradability:						(Ready	
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.2. Persistence and		28d	63	%		OECD 301 D	
degradability:						(Ready	
						Biodegradability -	
						Closed Bottle Test)	
12.3. Bioaccumulative	Log Pow		2,75			,	
potential:	-						
12.3. Bioaccumulative	BCF		67,62-				
potential:			160				
Toxicity to bacteria:	EC50	3h	7,75	mg/l	activated sludge	OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Àmmonium	
						Oxidation))	

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		QSAR	
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	



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12.3. Bioaccumulative	Log Pow	2,98		A notable					
potential:	LUGFOW	2,90		biological					
potential.				accumulation					
				potential is not to					
				be expected					
				(LogPow 1-3).					
12.5. Results of PBT				No PBT					
and vPvB assessment				substance, No					
				vPvB substance					
	SE	CTION 13 Die	sposal considerations						
			sposal considerations						
13.1 Waste treatm	nent methods								
For the substance	o / mixturo / ros	sidual amounte							
EC disposal code no.:			5						
The waste codes are rec	commendations based	I on the scheduled us	e of this product						
Owing to the user's speci			•						
allocated under certain ci									
16 05 04 gases in pressu			hazardous substances						
20 01 29 detergents conta									
Recommendation:	Ū.								
Sewage disposal shall be	e discouraged.								
Pay attention to local and									
Take full aerosol cans to									
Take emptied aerosol car									
For contaminated	I packing mate	rial							
Pay attention to local and	national official regula	ations.							
Recommendation:									
Do not perforate, cut up c	or weld uncleaned con	tainer.							
Recycling									
15 01 04 metallic packagi	ing								
	S	FCTION 14. T	ransport information						
General statemen	nts								
14.1. UN number or ID nu	umber:		1950						
Transport by road	d/by rail (ADR/F	RID)							
14.2. UN proper shipping		,							
UN 1950 AEROSOLS									
14.3. Transport hazard cl	ass(es):		2.1						
14.4. Packing group:			-	•					
Classification code:			5F						
LQ:	u de c		1 L Natarriashia						
14.5. Environmental haza Tunnel restriction code:	ards:		Not applicable D						
			D						
Transport by sea	• •								
14.2. UN proper shipping	name:								
AEROSOLS	()		0.4	<u>(*)</u>					
14.3. Transport hazard cl	ass(es).		2.1						
14.4. Packing group: EmS:			- F-D, S-U						
Marine Pollutant:			г-D, S-O n.a						
14.5. Environmental haza	ards:		Not applicable						
Transport by air (
14.2. UN proper shipping Aerosols, flammable	ndine.								
14.3. Transport hazard cl	ass(es):		2.1	<u> </u>					
14.4. Packing group:			-	•					
14.5. Environmental haza	ards:		Not applicable						



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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 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.):

	•		
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
P3a	11.1	150 (netto)	500 (netto)

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 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity	Qualifying quantity
			(tonnes) for the	(tonnes) for the
			application of - Lower-tier	application of - Upper-tier
			requirements	requirements
18	Liquefied flammable	19	50	200
	gases, Category 1 or 2			
	(including LPG) and			
	natural gas			

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): REGULATION (EC) No 648/2004

30 % and more aliphatic hydrocarbons less than 5 % cationic surfactants

perfumes

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. 1-16

93,58 %



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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 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

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.

H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation Aquatic Chronic — Hazardous to the aquatic environment - chronic Aerosol — Aerosols Flam. Liq. — Flammable liquid STOT SE — Specific target organ toxicity - single exposure - narcotic effects Acute Tox. — Acute toxicity - oral Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage

Aquatic Acute — Hazardous to the aquatic environment - acute

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 ADR 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) ATE Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF Bioconcentration factor



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SVHC Substances of Very High Concern Telephone Tel. TOC Total organic carbon 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.

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These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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