

Version number 1.00

Revision: 11.01.2021

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

· 1.1 Product identifier

- · Trade name: <u>Lemon Terpenes</u> (ref.-no. 2018.2215)
- · Chemical Identification: Lemon, ext., (lemon oil, terpenes and terpenoids)
- · Article number: 2006#0078
- · CAS Number:
- 84929-31-7
- *EC number:* 284-515-8
- Registration number 01-2119495512-35-0024
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Flavours/Fragrances
- $\cdot$  1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: MCI Miritz Citrus Intercontinental GmbH & Co. KG Citrusstr. 3 D-37318 Kirchgandern Tel: 0049-36081-621-0 e-mail: info@miritz.de

MCI Miritz Citrus GmbH & Co. KG Citrusstr. 3 D-37318 Kirchgandern Tel: 0049-36081-621-0 e-mail: info@miritz.de

MCI Miritz Citrus Ingredients LLC 28 Railroad Avenue Warwick, NY 10990 USA

- Further information obtainable from: Department Regulatory Affairs Tel.: 0049-36081-621-0 info@miritz.de
- **1.4 Emergency telephone number:** MCI Miritz Germany: 0049-(0)-170-9131244 Chemtrec USA: 001-1-800-424-9300 Emergency Number China: 0086-532-8388-9090

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Flam. Liq. 3 H226 Flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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Printing date 01.11.2021 Version number 1.00 Trade name: Lemon Terpenes (ref.-no. 2018.2215) (Contd. of page 1) · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. · Hazard pictograms GHS02 GHS07 GHS08 GHS09 · Signal word Danger · Hazard-determining components of labelling: (R)-p-mentha-1,8-diene beta-Pinene p-Mentha-1,4-diene alpha-Pinene Citral Terpinolene · Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects. · Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 *Use explosion-proof [electrical/ventilating/lighting] equipment.* P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Specific treatment (see on this label). P321 P331 Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. · 2.3 Other hazards · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

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

· 3.1 Substances

· CAS No. / Description

84929-31-7 Lemon oil · Identification number(s) EINECS CAS 84929-31-7 EINECS 284-515-8 TSCA CAS 68917-33-9

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Lemon, ext., (lemon oil, terpenes and terpenoids)

• **EC number:** 284-515-8

• Additional information: For the wording of the listed hazard phrases refer to section 16.

· Dangerous compone		
CAS: 5989-27-5 EINECS: 227-813-5	(R)-p-mentha-1,8-diene ♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Acute 1, H400; ↑ Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	50-100%
CAS: 127-91-3 EINECS: 204-872-5	beta-Pinene	10-25%
CAS: 99-85-4 EINECS: 202-794-6	p-Mentha-1,4-diene	2.5-10%
CAS: 80-56-8 EINECS: 201-291-9	alpha-Pinene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317	1-2.5%
CAS: 123-35-3 EINECS: 204-622-5	Myrcene	1-2.5%
CAS: 5392-40-5 EINECS: 226-394-6	Citral 🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	1-2.5%

## SECTION 4: First aid measures

## • 4.1 Description of first aid measures

• General information:

If health disorder happens, call for medical help immediately. Immediately remove any clothing soiled by the product.

- After inhalation:
- Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- $\cdot \textit{After swallowing: } Do not induce vomiting; call for medical help immediately.$

 $\cdot$  4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

 $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, alcohol resistant foam, powder, water spray.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- $\cdot$  5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released:
- Carbon monoxide (CO)

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Carbon dioxide (CO2) Smoke and soot

Do not use water with full jet to prevend fire spreading.

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

· Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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

· 6.1 Personal precautions, protective equipment and emergency procedures Follow safety measures in chapter 7 and 8. Wear protective equipment. Keep unprotected persons away. · 6.2 Environmental precautions: Do not allow to penetrate the ground/soil. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. • 6.3 Methods and material for containment and cleaning up: Wipe up little amounts with absorbent material like cloth or pulp. Water and cleansing agent Absorb with incombustible liquid-binding material (sand, diatomite, universal binders). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. 6.4 Reference to other sections Keep ignition source away, do not smoke and avoid flames. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling personal protection equipment see point 8. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: Fumes can combine with air to form an explosive mixture. Moistened solids (e.g. cloth, pulp, filter panel, binder) has to be stored hermetically sealed and/or watered and proper disposed (see chapter 9 and 13). Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Provide solvent resistant, sealed floor.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions:
- Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Storage class: 3

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 $\cdot {\it Classification\ according\ to\ Betriebssicherheitsverordnung\ (BetrSichV)\ Flammable\ liquid$ 

• 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

	ith limit values that require monitoring at t -p-mentha-1,8-diene	ne workplace:
. ,	ny) Long-term value: 28 mg/m <sup>3</sup> , 5 ppm	
DALEL	4(II);DFG, H, Sh, Y	
DNELs	itrone, Ext. (REACH)	
Oral	DNEL, acute / short term exp., systemic effects	mg/kg (human, general population) No hazard identified.
	DNEL, long term exp., systemic effects	3.33 mg/kg bw d (human, genera population)
Dermal	DNEL, acute / short term exp., local effects	
		µg/cm² (human, worker) Medium hazard (no threshold derived).
	DNEL, acute / short term exp., systemic effects	mg/kg bw d (human, general population No hazard identified.
		mg/kg bw d (human, worker) No hazard identified.
	DNEL, long term exp., local effects	µg/cm² (human, general population) No hazard identified.
		µg/cm² (human, worker) No hazard identified.
	DNEL, long term exp., systemic effects	3.33 mg/kg bw d (human, genera population)
		6.67 mg/kg bw d (human, worker)
Inhalative	DNEL, acute / short term exp., local effects	mg/m <sup>3</sup> (human, general population) No hazard identified.
		mg/m <sup>3</sup> (human, worker) No hazard identified.
	DNEL, acute / short term exp., systemic effects	mg/m <sup>3</sup> (human, general population) No hazard identified.
		mg/m³ (human, worker) No hazard identified.
	DNEL, long term exp., local effects	mg/m <sup>3</sup> (human, general population) No hazard identified.
		mg/m³ (human, worker) No hazard identified.
	DNEL, long term exp., systemic effects	5.8 mg/m <sup>3</sup> (human, general population)
		23.3 mg/m <sup>3</sup> (human, worker)



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Irritation of eyes DNEL, eye exposure	(Contd. of pag (human, general population)
	No hazard identified
	(human, worker) No hazard identified
PNECs	
84929-31-7 Citrone, Ext. (REACH)	
PNEC, aqua (freshwater)	5.4 μg/l (aqua (freshwater))
PNEC, aqua (marine water)	0.54 μg/l (aqua (marine water))
PNEC, aqua (intermittent releases freshwater)	5.77 μg/l (aqua (freshwater))
PNEC, sediment (freshwater)	1.3 mg/kg sedim. dw (sediment (freshwater))
PNEC, sediment (marine water)	0.13 mg/kg sedim. dw (sediment (marine water))
PNEC, soil	0.29 mg/kg soil dw (soil)
PNEC, secondary poisoning	mg/kg food (predator)
	No potential to cause toxic effects if accumulate
	(in higher organisms) via the food chain
PNEC, STP	2.1 mg/l (sewage treatment plant)
PNEC, air	(air)
Additional information: The lists valid during	No hazard identified
Appropriate engineering controls No further d Individual protection measures, such as perso General protective and hygienic measures: Use personal protective equipment depending of	nal protective equipment on concentration and amount of hazardous substanc
Appropriate engineering controls No further d Individual protection measures, such as perso General protective and hygienic measures: Use personal protective equipment depending of Keep away from foodstuffs, beverages and feed Immediately remove all soiled and contaminate Wash hands before breaks and at the end of wo Avoid contact with the skin. Avoid contact with the eyes and skin. Respiratory protection: Suitable respiratory protection: filter class A2 Use the rules for application of respiratory pro	nal protective equipment on concentration and amount of hazardous substanc l. ed clothing ork. (brown colour). otection systems.
Appropriate engineering controls No further d Individual protection measures, such as perso General protective and hygienic measures: Use personal protective equipment depending of Keep away from foodstuffs, beverages and feed Immediately remove all soiled and contaminate Wash hands before breaks and at the end of wo Avoid contact with the skin. Avoid contact with the eyes and skin. <b>Respiratory protection:</b> Suitable respiratory protection: filter class A2 Use the rules for application of respiratory proto In case of brief exposure or low pollution use of exposure use self-contained respiratory protect Hand protection	nal protective equipment on concentration and amount of hazardous substanc l. ed clothing ork. (brown colour). otection systems. respiratory filter device. In case of intensive or long tive device.
Keep away from foodstuffs, beverages and feed Immediately remove all soiled and contaminate Wash hands before breaks and at the end of wo Avoid contact with the skin. Avoid contact with the eyes and skin. <b>Respiratory protection:</b> Suitable respiratory protection: filter class A2 Use the rules for application of respiratory pro In case of brief exposure or low pollution user	nal protective equipment on concentration and amount of hazardous substanc l. ed clothing ork. (brown colour). otection systems. respiratory filter device. In case of intensive or long tive device.
Appropriate engineering controls No further d Individual protection measures, such as perso General protective and hygienic measures: Use personal protective equipment depending of Keep away from foodstuffs, beverages and feed Immediately remove all soiled and contaminate Wash hands before breaks and at the end of wo Avoid contact with the skin. Avoid contact with the eyes and skin. <b>Respiratory protection:</b> Suitable respiratory protection: filter class A2 Use the rules for application of respiratory protect In case of brief exposure or low pollution use of exposure use self-contained respiratory protect <b>Hand protection</b> Preventive skin protection by use of skin-protect <b>Hand protection</b> The glove material has to be impermeable preparation. Selection of the glove material on considerati degradation	nal protective equipment on concentration and amount of hazardous substanc l. ed clothing ork. (brown colour). otection systems. respiratory filter device. In case of intensive or long tive device.
Appropriate engineering controls No further d Individual protection measures, such as perso General protective and hygienic measures: Use personal protective equipment depending of Keep away from foodstuffs, beverages and feed Immediately remove all soiled and contaminate Wash hands before breaks and at the end of wo Avoid contact with the skin. Avoid contact with the eyes and skin. <b>Respiratory protection:</b> Suitable respiratory protection: filter class A2 Use the rules for application of respiratory protect In case of brief exposure or low pollution use of exposure use self-contained respiratory protect <b>Hand protection</b> Preventive skin protection by use of skin-protect <b>Hand protection</b> The glove material has to be impermeable preparation. Selection of the glove material on considerati degradation <b>Material of gloves</b>	nal protective equipment on concentration and amount of hazardous substanc l. ed clothing ork. (brown colour). otection systems. respiratory filter device. In case of intensive or long tive device. cting agents is recommended.

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## · Penetration time of glove material

> 480 minutes at layerthickness of 0,425 millimeter (Sol-Vex 37-695/Ansell). The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
- E.g. following product: Sol-Vex (37-695) from Ansell.
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

· Eye/face protection



Tightly sealed goggles according to EN 166:2001

· Body protection: Protective work clothing

## SECTION 9: Physical and chemical properties

General Information	
Physical state	Fluid
Colour:	Colorless - yellow
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
range	>35 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	0.7 Vol %
Upper:	6.1 Vol %
Flash point:	48 °C
Auto-ignition temperature:	Product is not selfigniting; but in case of unpropitious storing conditions (air admission heat accumulation) selfignition is possible for moistened solids (e.g. cloth, pulp, filter panels binder).
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity at 40 °C	<18 mm <sup>2</sup> /s
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	**
Vapour pressure at 20 °C:	2.3 hPa
Density and/or relative density	
Density at 20 °C:	$0.845 \ g/cm^3$
Relative density	Not determined.
Vapour density	Not determined.

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9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of h	ealth
and environment, and on safety.	
Ignition temperature:	255 °C
Explosive properties:	Product is not explosive. However, formation
	explosive air/vapour mixtures are possible.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical ha	azard
classes	izuru
Explosives	Void
LAPIOSIVES	Void
Flammable gases	Void
r unimuble gases	Void
Aerosols	Vola Void
Aerosols	Void Void
Quidiaina agasa	
Oxidising gases	Void Void
	Void
Gases under pressure	Void Void
	Void
Flammable liquids	Flammable liquid and vapour.
	Void
Flammable solids	Void
	Void
Self-reactive substances and mixtures	Void
n 1 · 1· · 1	Void
Pyrophoric liquids	Void
<b>.</b>	Void
Pyrophoric solids	Void
	Void
Self-heating substances and mixtures	Void
	Void
Substances and mixtures, which emit flamm	
gases in contact with water	Void
	Void
Oxidising liquids	Void
	Void
Oxidising solids	Void
	Void
Organic peroxides	Void
	Void
Corrosive to metals	Void
	Void
Desensitised explosives	Void
-	Void

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- Heating causes vaporisation and formation of ignitable atmosphere is possible.
- · 10.3 Possibility of hazardous reactions
- Formation of explosive gas mixture with air possible.

Product is not selfigniting; but in case of unpropitious storing conditions (air admission, heat accumulation) selfignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder).

- $\cdot$  10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

No dangerous decomposition products expected by intended use.

## SECTION 11: Toxicological information

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

• Acute toxicity Based on available data, the classification criteria are not met.

## · LD/LC50 values relevant for classification:

5989-27-5 (R)-p-mentha-1,8-diene

Oral LD50 4,400 mg/kg (rat)

5392-40-5 Citral

Oral LD50 4,960 mg/kg (rat)

- · Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Sensitisation: May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- $\cdot$  Aspiration hazard May be fatal if swallowed and enters airways.
- $\cdot$  Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity) Aspiration may cause lung damages.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties
- None of the ingredients is listed.

## SECTION 12: Ecological information

### · 12.1 Toxicity

· Aquatic toxicity:

84929-31-7 Citrone, Ext. (REACH)

LC50 (4 d) 5.65 mg/L (fish)

*EC50* (48*h*) 1.1 mg/L (daphnia)

EC50(72h) 8 mg/L (algae)

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- $\cdot$  12.4 Mobility in soil No further relevant information available.

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12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
12.7 Other adverse effects
Remark: Toxic for fish
Remark: Quantitative data according to the ecological effects are not available.
Additional ecological information:
General notes: Danger to drinking water if even small quantities leak into the ground. Do not allow product to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies.

Water hazard class 3 (German regulation)(AwSV 2884; CAS 84929-31-7): severe hazardous for water

Toxic for aquatic organisms

## **SECTION 13: Disposal considerations**

## · 13.1 Waste treatment methods

· Recommendation

Recycling is prefered to disposal or burning.

Disposal must be made according to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
02 00 00	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY,
	HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 03 00	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 03	wastes from solvent extraction

• Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (d-limonene
	beta-Pinene), ENVIRONMENTALLY HAZARDOUS
· IMDG	FLAMMABLE LIQUID, N.O.S. (d-limonene, beta
	Pinene), MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (d-limonene, beta
	Pinene)



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· 14.3 Transport hazard class(es)	
· ADR	
	3 (F1) Flammable liquids. 3
IMDG	
	3 Flammable liquids.
	3
IATA	
	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	111
· 14.5 Environmental hazards:	Product contains environmentally hazardou substances: d-Limonene
• Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
• 14.6 Special precautions for user	Warning: Flammable liquids.
• Hazard identification number (Kemler code): • EMS Number:	50 F-E,S-E
~ ~	A
14.7 Maritime transport in bulk according to	
	Not applicable.
Transport/Additional information:	
ADR	
1 2	5L
1 1 1	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 m
Transport category	<i>3</i>
	D/E
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· IMDG	
· Limited quantities (LQ)	5L
$\cdot$ Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (D
	LIMONENE, BETA-PINENE), 3, III
	ENVIRONMENTALLY HAZARDOUS

## SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category
- E2 Hazardous to the Aquatic Environment
- P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- $\tilde{Q}$  ualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- **REGULATION** (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- · National regulations:
- Information about limitation of use:

*Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.* 

· Breakdown regulations:

Critical quantity values according to the regulations on accidents should be adhered to.

• Technical instructions (air):

Class	Share in %
NK	50-100

• Waterhazard class:

Water hazard class 3 (German regulation)(AwSV 2884; CAS 84929-31-7): severe hazardous for water

- Other regulations, limitations and prohibitive regulations Comply with the rules and regulations of skin protection. Comply with the rules and regulations of respiratory protection.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· Relevant phrases

· Contact:

info@miritz.de

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(Contd. of page 12) H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. · Department issuing SDS: Regulatory Affairs Department Regulatory Affairs Tel.: 0049-36081-621-0 • Date of previous version: 11.01.2021 · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1B: Skin sensitisation - Category 1B

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

• \* Data compared to the previous version altered.

DEN