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

1.1 Product identifier

Trade name	:	terralin AF wipes	200 ST SP
Unique Formula Identifier	:	5800-P0VS-N00A-TKK9	
(UFI)			

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

Use of the Substance/Mix- : Disinfectants and general biocidal products ture

1.3 Details of the supplier of the safety data sheet

Producer :	Schülke & Mayr GmbH Robert-Koch-Str. 2
	22851 Norderstedt Germany Telephone: +49 (0)40/ 52100-0 Telefax: +49 (0)40/ 52100318 mail@schuelke.com www.schuelke.com
Supplier :	Schülke & Mayr UK Ltd. Cygnet House 1, Jenkin Road
	Sheffield S9 1AT United Kingdom Telephone: +44 114 254 35 00 Telefax: +44 114 254 35 01 mail.uk@schulke.com
E-mail address of person re- : sponsible for the SDS/Contact person	Application Specialists +49 (0)40/ 521 00 666 AD@schuelke.com

1.4 Emergency telephone number

Emergency telephone num-	:	Carechem 24 International:+44 1235 239670
ber		

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.

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Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :	
Signal word :	Warning
Hazard statements :	H226 Flammable liquid and vapour.H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.
Precautionary statements :	P102 Keep out of reach of children.
	Prevention:
	P210 Keep away from heat, hot surfaces, sparks, openflames and other ignition sources. No smoking.P280 Wear protective gloves/ eye protection.
	Response:
	P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.P337 + P313If eye irritation persists: Get medical advice/ attention.

Hazardous components which must be listed on the label: propan-1-ol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Has a degreasing effect on the skin.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

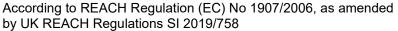
Chemical nature

: Aqueous, alcohol containing solution on non-woven

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
propan-1-ol	71-23-8	Flam. Liq. 2; H225	>= 30 - < 50

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		200-746-9 603-003-00-0 01-2119486761-29- XXXX	Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system)	
ethanol		64-17-5 200-578-6 603-002-00-5 01-2119457610-43- XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 20 - < 30

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures If inhaled : If symptoms persist, call a physician. In case of skin contact : Wash with water and soap as a precaution. If skin irritation persists, call a physician. In case of eye contact Rinse thoroughly with plenty of water, also under the eyelids. • Obtain medical attention. : If accidentally swallowed obtain immediate medical attention. If swallowed 4.2 Most important symptoms and effects, both acute and delayed Symptoms : Treat symptomatically. Risks : Causes serious eye irritation. May cause drowsiness or dizziness. 4.3 Indication of any immediate medical attention and special treatment needed Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media Dry powder Alcohol-resistant foam Carbon dioxide (CO2) Water spray jet Unsuitable extinguishing media Foam Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : Cool closed containers exposed to fire with water spray. fighting

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Hazardous combustion prod- : No hazardous combustion products are known ucts

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5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Remove all sources of ignition.
	Avoid contact with eyes.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: Use mechanical handling equipment.

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice	e on safe handling e on protection against d explosion		Wear personal protective equipment. Keep away from sources of ignition - No smoking.
Hygier	ne measures	:	Keep away from food and drink.
7.2 Condition	ons for safe storage, in	nclu	iding any incompatibilities
	rements for storage ar- nd containers	:	Store at room temperature in the original container.
	er information on stor- onditions	:	Keep container tightly closed. Keep away from direct sunlight Recommended storage temperature: 15 - 25°C
Advice	e on common storage	:	Do not store together with oxidising agents.
7.3 Specific	c end use(s)		

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
propan-1-ol	71-23-8	STEL	250 ppm 625 mg/m3	GB EH40		
	Further information: Can be absorbed through the skin. The assigned sub- stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.					
		TWA	200 ppm 500 mg/m3	GB EH40		
	Further information: Can be absorbed through the skin. The assigned sub- stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.					
ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	GB EH40		

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
propan-1-ol	Workers	Skin contact	Long-term systemic effects	136 mg/kg
	Workers	Inhalation	Long-term systemic effects	268 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	1723 mg/m3
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Workers	Inhalation	Long-term systemic effects	950 mg/m3

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
propan-1-ol	Fresh water	6.83 mg/l
	Soil	1.49 mg/kg
	Marine sediment	2.75 mg/kg
	Fresh water sediment	27.5 mg/kg
	Marine water	0.983 mg/l
ethanol	Fresh water	0.96 mg/l
	Marine water	0.79 mg/l
	Fresh water sediment	3.6 mg/kg
	Soil	0.63 mg/kg
	Marine sediment	2.9 mg/kg
	Sewage treatment plant	580 mg/l

8.2 Exposure controls

Personal protective equipment

Hand protection

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Remarks		Min., layer thio Butoject (>480	ntact: Nitrile rubber gloves e.g. Camatril (>120 ckness: 0.40 mm) or butyl rubber gloves e.g.) Min., layer thickness: 0.70 mm) made by KCL o other manufacturers offering the same protec-			
Respiratory protection		: No personal re quired.	No personal respiratory protective equipment normally re- quired.			
Protective measures		: Avoid contact	with skin and eyes.			

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	Aqueous, alcohol containing solution on non-woven colourless alcohol-like not determined
pH	:	Not applicable
Melting point/freezing point	:	< -5 °C of the active solution
Decomposition temperature		No data available
Boiling point/boiling range	:	ca. 80 °Cof the active solution
Flash point	:	27 °C Method: DIN 51755 Part 1 of the active solution
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	17.5 %(V) Raw material
Lower explosion limit / Lower flammability limit	:	2.1 %(V) Raw material
Vapour pressure	:	ca. 50 hPa (20 °C) of the active solution
Relative vapour density	:	No data available
Density	:	ca. 0.89 g/cm3 (20 °C) of the active solution
Solubility(ies) Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-oc- tanol/water	:	Not applicable
Auto-ignition temperature	:	425 °C
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	Raw material
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: not determined
Flow time	: < 15 s at 20 °C Method: DIN 53211 of the active solution
Explosive properties	: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
9.2 Other information Flammability (liquids)	: Flammable liquid and vapour. Remarks: of the active solution
Metal corrosion rate	: None reasonably foreseeable.
Self-ignition	: No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions				
Hazardous reactions	:	None reasonably foreseeable.		
10.4 Conditions to avoid				
Conditions to avoid	:	Heat, flames and sparks.		
10.5 Incompatible materials				
Materials to avoid	:	Strong acids and oxidizing agents		

10.6 Hazardous decomposition products

None reasonably foreseeable.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:

propan-1-ol:		
Acute oral toxicity	:	LD50 (Rat): ca. 8,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 33.8 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit): 4,032 mg/kg Method: literature value
ethanol:		
Acute oral toxicity	:	LD50 (Mouse): 8,300 mg/kg
Acute inhalation toxicity	:	LC50 (Mouse): 39 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): 20,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

propan-1-ol:

Species	:	Rabbit
Result	:	No skin irritation

ethanol:

Species Method Result	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Touuci.	
Method	: Expert judgement
Result	: irritating
Remarks	: The toxicological data has been taken from products of similar
	composition.

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Components:

propan-1-ol:

Species Result	:	Rabbit
Result	:	Irreversible effects on the eye

ethanol:

Method Result	:	OECD Test Guideline 405
Result	:	Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

propan-1-ol:

Test Type : Species : Method : Result :	Maximisation Test
Species :	Guinea pig
Method :	OECD Test Guideline 406
Result :	Does not cause skin sensitisation.

ethanol:

Test Type Species Method Result	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

	propan-1-ol: Germ cell mutagenicity- As- sessment	:	Not mutagenic in Ames Test
	ethanol:		
	Genotoxicity in vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: Not mutagenic in Ames Test
	Genotoxicity in vivo	:	Result: Non mutagenic
	Germ cell mutagenicity- As- sessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
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Carcinogenicity

Not classified based on available information.

Components:

propan-1-ol:

Carcinogenicity - Assess- ment	: Animal testing did not show any carcinogenic effects.	
athonal		

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ethanol:

Carcinogenicity - Assess-	:	Did not show carcinogenic effects in animal experiments.
ment		

Reproductive toxicity

Not classified based on available information.

Components:

propan-1-ol:

Effects on foetal develop- ment	:	Species: Rat Application Route: inhalation (vapour) General Toxicity Maternal: NOAEL: 8.6 mg/l
Reproductive toxicity - As- sessment	:	Animal testing did not show any effects on fertility.
ethanol:		
Effects on foetal develop- ment	:	Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 2,000 mg/kg body weight
Reproductive toxicity - As- sessment	:	Animal experiments showed mutagenic and teratogenic ef- fects.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

propan-1-ol:

Assessment : May cause drowsiness or dizziness.

ethanol:

Remarks

: No data available

STOT - repeated exposure

Not classified based on available information.

Components:

propan-1-ol: Assessment

: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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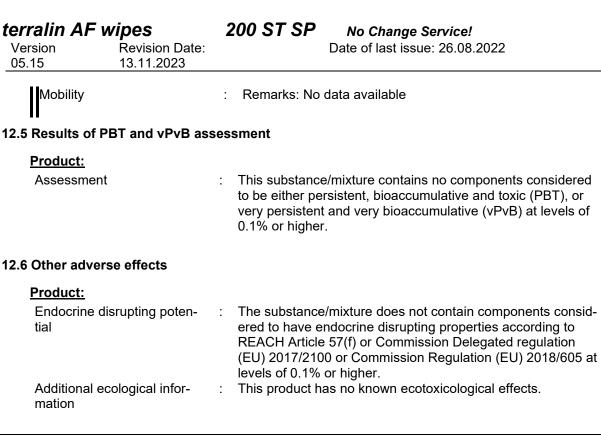
Prralin AF Version 05.15	wipes Revision Date: 13.11.2023	200 ST SP	<i>No Change Service!</i> Date of last issue: 26.08.2022
ethanol:			
Remarks		: No data avail	able
Repeated d	ose toxicity		
<u>Component</u>	<u>:s:</u>		
ethanol:			
Species		: Rat	
NOAEL LOAEL		: 1,730 mg/kg : 3,160 mg/kg	
Application	Route	: 0,100 mg/kg	
Exposure t		: 90 d	
Aspiration t	oxicity		
Not classifie	d based on availab	le information.	
Further info	ormation		
Product:			
Remarks		: No data is ava	ilable on the product itself.
ECTION 12: E	cological inform	nation	
	-		
2.1 Toxicity			
<u>Component</u>	<u>:S:</u>		
propan-1-ol	:		
Toxicity to	fish	: LC50 (Fish):	
11		Exposure tim	e: 96 h

Toxicity to daphnia and other aquatic invertebratesEC50 (Daphnia magna (Water flea)): 3,642 mg/l Exposure time: 48 h Method: DIN 38412Toxicity to algae/aquatic:NOEC (Chlorella pyrenoidosa (algae)): 1,150 mg/l		Toxicity to fish	:	LC50 (Fish): 3,200 mg/l Exposure time: 96 h
Toxicity to algae/aquatic : NOEC (Chlorella pyrenoidosa (algae)): 1,150 mg/l			:	Exposure time: 48 h
plants Exposure time: 48 h			:	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)NOEC: 68.3 mg/l Exposure time: 21 d 		aquatic invertebrates	:	Exposure time: 21 d Species: Daphnia magna (Water flea)
ethanol:	(ethanol:		
Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l Exposure time: 48 h		Toxicity to fish	:	
Toxicity to daphnia and other aquatic invertebratesEC50 (Daphnia magna (Water flea)): > 5,000 mg/l Exposure time: 48 h			:	

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Toxicity to algae/aquatic plants	: IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l Exposure time: 72 h
12.2 Persistence and degradabi	lity
Product:	
Biodegradability	: Result: Readily biodegradable. Method: OECD 301D / EEC 84/449 C6 Remarks: of the active solution
Components:	
propan-1-ol:	
Biodegradability	: Test Type: aerobic Result: Readily biodegradable. Biodegradation: 75 % Exposure time: 20 d
ethanol:	
Biodegradability	 Test Type: aerobic Result: Readily biodegradable. Biodegradation: > 70 % Exposure time: 5 d Method: OECD 301D / EEC 84/449 C6
12.3 Bioaccumulative potential	
Components:	
propan-1-ol:	
Bioaccumulation	: Bioconcentration factor (BCF): 0.88 Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-oc- tanol/water	: log Pow: 0.2 (25 °C) Method: OECD Test Guideline 117
ethanol:	
Bioaccumulation	: Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-oc- tanol/water	: log Pow: -0.14 Method: Calculated value
12.4 Mobility in soil	
<u>Components:</u>	
propan-1-ol: Mobility	: Remarks: Mobile in soils
ethanol:	
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Can be incinerated or landfilled together with household waste in compliance with the regulations, and after consultation with the waste disposal services.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADR	:	UN 3175
IMDG	:	UN 3175
ΙΑΤΑ	:	UN 3175
14.2 UN proper shipping name		
ADR	:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (propan-1-ol, ethanol)
IMDG	:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (propan-1-ol, ethanol)
ΙΑΤΑ	:	Solids containing flammable liquid, n.o.s. (propan-1-ol, ethanol)

14.3 Transport hazard class(es)



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Subsidiary risks
Subsidiary risks

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

Remarks

: Transport in accordance to special provision 216

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

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UK REAC	CH List of restrictions (/	Annex ´	17)		:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
	CH Candidate list of su		es of very	high	:	Not applicable
The Persi	SVHC) for Authorisation stent Organic Pollutan n (EU) 2019/1021 as a	its Regi			:	Not applicable
Regulatio	n (EC) No 1005/2009	on subs	stances th	at de-	:	Not applicable
	ozone layer CH List of substances s IV)	subject	to authoris	sation	:	Not applicable
Volatile o	rganic compounds	emis	sions (inte	egrated p	ollu	November 2010 on industrial tion prevention and control) s (VOC) content: 46.70 %
	to Detergents Reg- C 648/2004	Othe	er constitu	ents: Per	fum	les
Other reg	ulations:					
relating to Pregnant Take note relating to 94/33/EC The com	o new and expectant m Workers Directive 92/ of The Management	others 85/EEC of Heali eople a oung pe uct are	at work co :. th and Sat t work cor cople at wo reported	ontained i fety at Wo ntained in ork. in the fo	n R ork Re Ilov	-
TCSI	:	On t	he invento	ory, or in o	com	pliance with the inventory
TSCA	:	Alls	ubstances	listed as	ac	tive on the TSCA inventory
AIIC	:		omponent /restrictio		ed o	on the inventory, regulatory obliga-
DSL	:	All c	omponent	s of this p	oroc	duct are on the Canadian DSL
ENCS	:	On t	he invento	ory, or in o	com	pliance with the inventory
ISHL	:	On t	he invento	ory, or in o	com	pliance with the inventory
KECI	:	On t	he invento	ory, or in o	com	pliance with the inventory
PICCS	:	On t	he invento	ory, or in o	com	pliance with the inventory
IECSC	:	On t	he invento	ory, or in o	com	pliance with the inventory
NZIoC	:	Not i	n complia	nce with	the	inventory
TECI	:	Noti	n complia	nce with	the	inventory

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15.2 Chemical safety assessment

SECTION 16: Other informationFull text of H-Statements

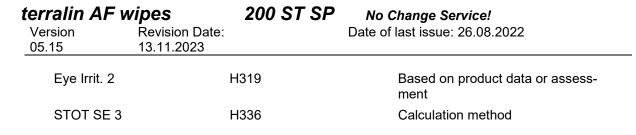
H225	:	Highly flammable liquid and vapour.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
Full text of other abbi	eviations	
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
STOT SE		Specific target organ toxicity - single exposure

Flam. Liq.		Flammable liquids
STOT SE	:	Specific target organ toxicity - single exposure
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency: EC-Number - European Community number: ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail: SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information Classification of the mixture: **Classification procedure:** Flam. Liq. 3 H226 Based on product data or assessment

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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