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

1.1	Product identifier		
	Trade name Unique Formula Identifier (UFI)		thermodent® clear 6Y90-V0VN-8008-J5EK
1.2	Relevant identified uses of the	s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Additive
	Recommended restrictions on use	:	Restricted to professional users.
1.3	Details of the supplier of the sa	afe	etv data sheet
		:	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, Meadowhall
			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 responsible for the SDS/Contact person	:	Application Specialists +49 (0)40/ 521 00 666 AD@schuelke.com (Schülke & Mayr UK Ltd.: +44-1142543500)
1.4	Emergency telephone number		
	Emergency telephone num-	:	Carechem 24 International:+44 1235 239670

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# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)

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

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H319 Causes serious eye irritation.
Precautionary statements	:	<b>Prevention:</b> P280 Wear eye protection/ face protection.
		Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa- ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention.

### **Additional Labelling**

The product is classified in accordance with Annex I (2.6.4.5) to Regulation (EC) 1272/2008.

#### 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.

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

#### 3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

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# Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C13-15-branched and line- ar, butoxylated ethoxylated	111905-53-4   	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 10 - < 20
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25- XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 10 - < 20
Alcohols, C9-11-iso-, C10-rich, eth- oxylated	78330-20-8   	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1 - < 3

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice	:	If symptoms persist, call a physician.
If inhaled	:	If symptoms persist, call a physician.
In case of skin contact	:	Wash with water and soap as a precaution. If symptoms persist, call a physician.
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	:	Rinse mouth with water. Give small amounts of water to drink. Consult a physician if necessary.
4.2 Most important symptoms	and e	ffects, both acute and delayed
Symptoms	:	Treat symptomatically.

Risks :	Causes serious eye irritation.
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# 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 Foam Water spray jet Carbon dioxide (CO2)
Unsuitable extinguishing media	:	Do NOT use water jet.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	No information available.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known

### 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

Development and a section of		No substal and south as a solution
Personal precautions	-	No special precautions required.

### 6.2 Environmental precautions

Environmental precautions	:	Avoid subsoil penetration.
---------------------------	---	----------------------------

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Wipe up with absorbent material (e.g. cloth, fleece).
	Soak up with inert absorbent material (e.g. sand, silica gel,
	acid binder, universal binder, sawdust).

### 6.4 Reference to other sections

see Section 8 + 13

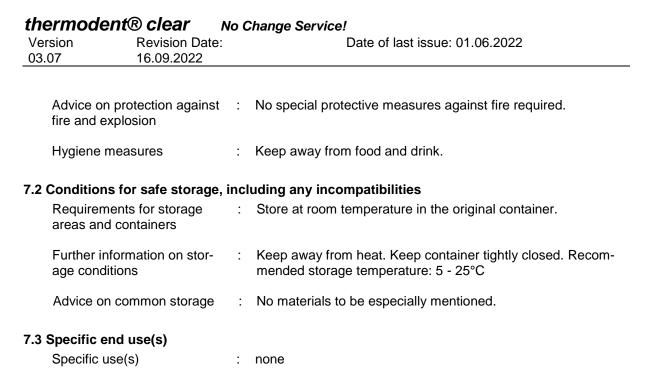
### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling	: Pre	pare the working so	plution as give	en on the label(s)	and/or
	the	user instructions.			



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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-2-ol	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40
		STEL	500 ppm 1,250 mg/m3	GB EH40

#### **Derived No Effect Level (DNEL):**

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
propan-2-ol	Workers	Skin contact	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m3

#### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
propan-2-ol	Fresh water	140.9 mg/l
	Marine water	140.9 mg/l
	Fresh water sediment	552 mg/kg
	Marine sediment	552 mg/kg
	Soil	28 mg/kg
	Intermittent use/release	140.9 mg/l
	Effects on waste water treatment plants	2251 mg/l
	Oral	160 mg/kg food

#### 8.2 Exposure controls

#### Personal protective equipment

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Eye/face prote	ction	:	Safety glasses with side-shields conforming to EN166
Hand protectio Directive	n	:	The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Remarks		:	Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Pro- longed contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protec- tion.
Skin and body	protection	:	Work uniform or laboratory coat.
Respiratory pro	otection	:	No personal respiratory protective equipment normally re- quired.
Protective mea	sures	:	Avoid contact with eyes.

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# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	alcohol-like
Odour Threshold	:	not determined
рН	:	7 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature		No data available
Boiling point/boiling range	:	ca. 80 °C
Flash point	:	37  °C Method: DIN 51755 Part 1
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available

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Vapour pressure	: ca. 35 hPa (20 °C)
Relative vapour density	: No data available
Density	: ca. 0.99 g/cm3 (20 °C)
Solubility(ies) Water solubility	: completely soluble (20 °C)
Partition coefficient: n- octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Viscosity Viscosity, dynamic	: No data available
Flow time	: < 15 s at 20 °C Method: DIN 53211
Explosive properties	: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
9.2 Other information	
Flammability (liquids)	: Does not sustain combustion.
Metal corrosion rate	: Not corrosive to metals

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# **SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b> No dangerous reaction known u	Inde	er conditions of normal use.
10.2 Chemical stability		
The product is chemically stable	Э.	
10.3 Possibility of hazardous react	tio	าร
Hazardous reactions	:	None reasonably foreseeable.
10.4 Conditions to avoid		
Conditions to avoid	:	Protect from frost, heat and sunlight.
10.5 Incompatible materials		
Materials to avoid	:	Never mix concentrates directly.
<b>10.6 Hazardous decomposition pro</b> None reasonably foreseeable.	odı	ucts

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# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity

: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

#### **Components:**

#### Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Acute oral toxicity	: LD50 (Rat): > 300 -	2,000 mg/kg
Acute inhalation toxicity	: Remarks: No data a	vailable
Acute dermal toxicity	: Remarks: No data a	vailable
propan-2-ol:		
Acute oral toxicity	: LD50 (Rat): 5,840 m	ıg/kg
Acute inhalation toxicity	: LC50 (Rat): 39 mg/l Exposure time: 4 h Test atmosphere: va	apour
Acute dermal toxicity	: LD50 (Rabbit): 13,90 Method: OECD Test	

#### Alcohols, C9-11-iso-, C10-rich, ethoxylated:

Acute oral toxicity	:	LD50 (Rat): 500 - 2,000 mg/kg Method: literature value Remarks: Harmful if swallowed.
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### **Components:**

#### Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Species Method Result	: Rabbit
Method	: OECD Test Guideline 404
Result	: Mild skin irritation

# propan-2-ol:

# : No skin irritation

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#### Alcohols, C9-11-iso-, C10-rich, ethoxylated:

Species Method Result	: Rabbit : literature value
Result	: No skin irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

#### Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Species Method Result	: Rabbit
Method	: OECD Test Guideline 405
Result	: Eye irritation

#### propan-2-ol:

Result	:	Eye irritation
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#### Alcohols, C9-11-iso-, C10-rich, ethoxylated:

Species Method Result	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irreversible effects on the eye

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

# Components:

#### propan-2-ol:

Test Type :	Buehler Test
Species :	Guinea pig
Test Type : Species : Result :	Did not cause sensitisation on laboratory animals.

#### Alcohols, C9-11-iso-, C10-rich, ethoxylated:

Remarks : No data available

#### Germ cell mutagenicity

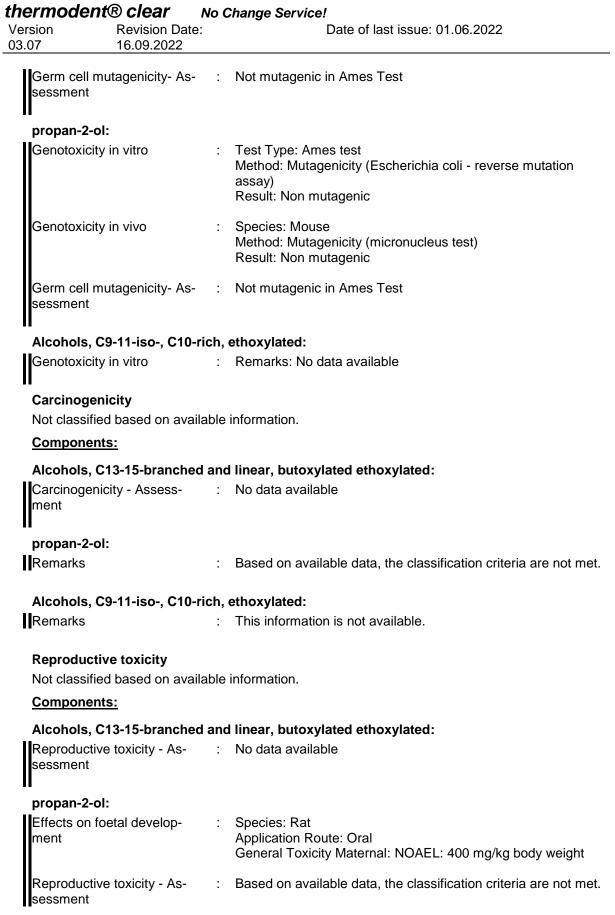
Not classified based on available information.

#### **Components:**

#### Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Genotoxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test) Result: negative
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Alcohols, C9-11-iso-, C10-		ethoxylated: Remarks: No data available
Effects on foetal develop- ment	:	Remarks: No data available
STOT - single exposure		
Not classified based on avai	lable	information.
Components:		
Alcohols, C13-15-branche	d and	d linear, butoxylated ethoxylated:
Remarks	:	
propan-2-ol:		
Assessment	:	May cause drowsiness or dizziness.
Alcohols, C9-11-iso-, C10-	rich,	ethoxylated:
Remarks	:	No data available
STOT - repeated exposure		
Not classified based on avai	lable	information.
Components:		
Alcohols, C13-15-branche	d and	d linear, butoxylated ethoxylated:
Remarks	:	Not classified due to data which are conclusive although insuf- ficient for classification.
propan-2-ol:		
Remarks	:	Based on available data, the classification criteria are not met.
Alcohols, C9-11-iso-, C10-	rich,	ethoxylated:
Remarks	:	No data available
Repeated dose toxicity		
Components:		
propan-2-ol:		
Remarks	:	No data available
Aspiration toxicity		
Not classified based on avai	lable	information.
Further information		
Product:		

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Remarks

: No data is available on the product itself.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

# Components:

### Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Toxicity to fish	:	LC50 (Leuciscus idus): > 1 - 10 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: > 0.1 - 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202
propan-2-ol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 10,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test
		EC50 (green algae): 1,800 mg/l Exposure time: 7 d

# Alcohols, C9-11-iso-, C10-rich, ethoxylated:

Toxicity to fish	:	(Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 96 h Method: DIN 38412
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h Method: DIN 38412
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 96 h Method: DIN 38412

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### 12.2 Persistence and degradability

### Components:

### Alcohols, C13-15-branched and linear, butoxylated ethoxylated:

Biodegradability	: Result: Readily biodegradable. Biodegradation: > 60 % Exposure time: 28 d Method: OECD Test Guideline 301F
	Method: OECD Test Guideline 301F

# propan-2-ol:

Biodegradability	: Result: Readily biodegradable.
------------------	----------------------------------

# Alcohols, C9-11-iso-, C10-rich, ethoxylated:

### 12.3 Bioaccumulative potential

### Components:

#### propan-2-ol:

Bioaccumulation	:	Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n- octanol/water		log Pow: 0.05 (20 °C) Method: OECD Test Guideline 107

### Alcohols, C9-11-iso-, C10-rich, ethoxylated:

Bioaccumulation	:	Remarks: None reasonably foreseeable.
Partition coefficient: n- octanol/water	:	Remarks: Not applicable

# 12.4 Mobility in soil

# Components:

propan-2-ol:		
Mobility	:	Remarks: Mobile in soils

# Alcohols, C9-11-iso-, C10-rich, ethoxylated:

Mobility : Remarks: Adsorbs on soil.

# 12.5 Results of PBT and vPvB assessment

### Product:

Assessment

: This substance/mixture contains no components considered

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		to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
12.6 Other adv	erse effects			
Product:				
Endocrine tial	disrupting poten-	: The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.		
Additional mation	ecological infor-	: No data is available on the product itself.		

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# **SECTION 13: Disposal considerations**

Product	:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
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	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
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IATA (Cargo)	:	Not regulated as a dangerous good	
IATA (Passenger)	:	Not regulated as a dangerous good	
14.5 Environmental hazards			
Not regulated as a dangerous good			
14.6 Special precautions for user			
Remarks	:	Not classified as supporting combustion according to the	

transport regulations.

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

Not applicable for product as supplied.

# **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

UK REACH	UK REACH List of restrictions (Annex 17)			Conditions of restriction for the fol- lowing entries should be considered:
	I Candidate list of subs VHC) for Authorisation		:	Number on list 3 Not applicable
	The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)			Not applicable
Regulation plete the o	(EC) No 1005/2009 or zone layer	n substances that de-	:	Not applicable
UK REACH (Annex XI\	H List of substances su /)	bject to authorisation	:	Not applicable
Volatile org	anic compounds :	emissions (integrated	poll	4 November 2010 on industrial ution prevention and control) ds (VOC) content: 24.55 %
Other regu	ulations:			
The comp	onents of this produ	ct are reported in the f	ollo	owing inventories:
TCSI	:	On the inventory, or in	cor	npliance with the inventory
TSCA	:	Product contains subst	tano	ce(s) not listed on TSCA inventory.
AIIC	:	All components are list tions/restrictions apply		on the inventory, regulatory obliga-
DSL	:	This product contains t on the Canadian DSL		following components that are not NDSL.
		2-methyl-1,2-benzothia	azol	I-3(2H)-one
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ENCS		:	Not in compliance with the inventory
ISHL		:	Not in compliance with the inventory
KECI		:	Not in compliance with the inventory
PICCS		:	Not in compliance with the inventory
IECSC		:	Not in compliance with the inventory
NZIoC		:	Not in compliance with the inventory
TECI		:	Not in compliance with the inventory

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#### 15.2 Chemical safety assessment

Exempt

### **SECTION 16: Other information**

#### Full text of H-Statements

H225 :	Highly flammable liquid and vapour.
H302 :	Harmful if swallowed.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H336 :	May cause drowsiness or dizziness.
H412 :	Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
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

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- 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:				
Eye Irrit. 2	H319			

Classification procedure: Calculation method

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

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