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

1.1 Product identifier

Trade name : mikrozid® universal wipes green line

Unique Formula Identifier : D520-U02H-D007-C3DQ

(UFI)

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

Use of the Sub- : Disinfectants and general biocidal products

stance/Mixture

Recommended restrictions

on use

Reserved for industrial and professional use.

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 responsible for the

responsible for the SDS/Contact person

: Application Specialists +49 (0)40/ 521 00 666 AD@schuelke.com

1.4 Emergency telephone number

Emergency telephone num-

ber

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 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.

#### 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.

Precautionary statements : P102 Keep out of reach of children.

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

### 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 : Aqueous, alcohol containing solution on non-woven

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# **Hazardous components**

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
	Registration number		
propan-2-ol	67-63-0	Flam. Liq. 2; H225	>= 10 - < 20
	200-661-7	Eye Irrit. 2; H319	
	603-117-00-0	STOT SE 3; H336	
	01-2119457558-25-	(Central nervous	
	XXXX	system)	
ethanol	64-17-5	Flam. Liq. 2; H225	>= 10 - < 20
	200-578-6	Eye Irrit. 2; H319	
	603-002-00-5		
	01-2119457610-43-		
	XXXX		

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

If inhaled : Move the victim to fresh air and keep him calm.

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 swallowed : If accidentally swallowed obtain immediate medical attention.

# 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Treat symptomatically.

Risks : Causes serious eye irritation.

### 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

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> Unsuitable extinguishing Foam

media Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Cool closed containers exposed to fire with water spray.

ucts

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

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

**SECTION 6: Accidental release measures** 

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : 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 on safe handling Wear personal protective equipment.

Ensure adequate ventilation.

Advice on protection against :

fire and explosion

Keep away from sources of ignition - No smoking.

Keep away from food and drink. Hygiene measures

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Store at room temperature in the original container.

Further information on stor-

age conditions

Keep container tightly closed. Keep away from direct sunlight.

Recommended storage temperature: 15 - 25°C

Advice on common storage : Do not store together with oxidising agents.

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7.3 Specific end use(s)

Specific use(s) : none

# **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
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 effects	Value
propan-2-ol	Workers	Skin contact	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 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-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
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

Eye/face protection : If splashes are likely to occur, wear:

Goggles

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Hand protection

Remarks : Prolonged contact: Nitrile rubber gloves e.g. Camatril (>120

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.

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Protective measures : Avoid contact with skin and eyes.

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

# 9.1 Information on basic physical and chemical properties

Appearance : Aqueous, alcohol containing solution on non-woven

Colour : colourless

Odour : alcohol-like

Odour Threshold : not determined

pH : ca. 3.5

Concentration: 100 % of the active solution

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 : 26 °C

Method: DIN 51755 Part 1 of the active solution

Evaporation rate : No data available

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower :

flammability limit

not determined

Vapour pressure : ca. 40 hPa (20 °C)

of the active solution

Relative vapour density : No data available



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Density : ca. 0.95 g/cm3

of the active solution

Solubility(ies)

Water solubility : in all proportions (20 °C)

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : 425 °C

Raw material

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : not determined

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.

# **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-2-ol:

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg

Acute inhalation toxicity : LC50 (Rat): 39 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 13,900 mg/kg

Method: OECD Test Guideline 402

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

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

**Product:** 

Method : Patch Test
Result : No skin irritation

Remarks : largely based on human evidence

**Components:** 

propan-2-ol:

Result : No skin irritation

ethanol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

# Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Assessment : Causes serious eye irritation.



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> Method Calculation method

Components:

propan-2-ol:

Result Eye irritation

ethanol:

Method **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-2-ol:

Test Type : Buehler Test Species : Guinea pig

Result Did not cause sensitisation on laboratory animals.

ethanol:

Test Type **Maximisation Test** 

: Guinea pig Species

Method OECD Test Guideline 406

Result Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

**Components:** 

propan-2-ol:

Genotoxicity in vitro Test Type: Ames test

Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

Result: Non mutagenic

Genotoxicity in vivo Species: Mouse

Method: Mutagenicity (micronucleus test)

Result: Non mutagenic

Germ cell mutagenicity- As- : Not mutagenic in Ames Test

sessment

ethanol:

Genotoxicity in vitro Test Type: Microbial mutagenesis assay (Ames test)

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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.

Carcinogenicity

Not classified based on available information.

**Components:** 

propan-2-ol:

Remarks : Based on available data, the classification criteria are not met.

ethanol:

Carcinogenicity - Assess-

ment

: Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Not classified based on available information.

Components:

propan-2-ol:

Effects on foetal develop- : Species: Rat

ment

Application Route: Oral

General Toxicity Maternal: NOAEL: 400 mg/kg body weight

Reproductive toxicity - As-

sessment

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

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

Not classified based on available information.

**Components:** 

propan-2-ol:

Assessment : May cause drowsiness or dizziness.

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ethanol:

Remarks No data available

STOT - repeated exposure

Not classified based on available information.

Components:

propan-2-ol:

Remarks Based on available data, the classification criteria are not met.

ethanol:

Remarks No data available

Repeated dose toxicity

Components:

propan-2-ol:

Remarks No data available

ethanol:

Species Rat

NOAEL 1,730 mg/kg LOAEL 3,160 mg/kg

Application Route Oral Exposure time 90 d

**Aspiration toxicity** 

Not classified based on available information.

**Further information** 

**Product:** 

No human information is available. Remarks

### **SECTION 12: Ecological information**

### 12.1 Toxicity

### **Components:**

propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 10,000 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

plants Exposure time: 72 h

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Test Type: static test

EC50 (green algae): 1,800 mg/l

Exposure time: 7 d

ethanol:

Toxicity to fish LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l

Exposure time: 48 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 5,000 mg/l

Exposure time: 48 h

Toxicity to algae/aguatic

plants

IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l

Exposure time: 72 h

# 12.2 Persistence and degradability

# **Components:**

propan-2-ol:

Biodegradability : Result: Readily biodegradable.

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-2-ol:

Bioaccumulation Remarks: No bioaccumulation is to be expected (log Pow <=

4).

Partition coefficient: n-

: log Pow: 0.05 (20 °C) octanol/water

Method: OECD Test Guideline 107

ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: nlog Pow: -0.14

octanol/water Method: Calculated value

### 12.4 Mobility in soil

# Components:

propan-2-ol:

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Mobility

: Remarks: Mobile in soils

ethanol:

Mobility

Remarks: No data available

# 12.5 Results of PBT and vPvB assessment

### **Product:**

Assessment : 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.

### 12.6 Other adverse effects

### **Product:**

Endocrine disrupting poten-

tial

The substance/mixture does not contain components considered 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 ecological infor-

mation

: No data is available on the product itself.

# **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 IATA : UN 3175

14.2 UN proper shipping name

ADR : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

(propan-2-ol, ethanol)

IMDG : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

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(propan-2-ol, ethanol)

IATA : Solids containing flammable liquid, n.o.s.

(propan-2-ol, ethanol)

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 4.1 IMDG : 4.1 IATA : 4.1

14.4 Packing group

**ADR** 

Packing group : II
Classification Code : F1
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : (E)

**IMDG** 

Packing group : II
Labels : 4.1
EmS Code : F-A, S-I

IATA (Cargo)

Packing instruction (cargo : 448

aircraft)

Packing instruction (LQ) : Y441
Packing group : II

Labels : Flammable solid

IATA (Passenger)

Packing instruction (passen- : 445

ger aircraft)

Packing instruction (LQ) : Y441
Packing group : II

Labels : Flammable solid

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Remarks : Transport in accordance to special provision 216

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# **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 List of restrictions (Annex 17) : Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 3

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great Brit-

Not applicable

ain)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 24 %

according to Detergents

Regulation EC 648/2004

< 5%: Anionic surfactants

# Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

### The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Sulfonic acids, C14-17-sec-alkane, sodium salts

ENCS : Not in compliance with the inventory

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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: On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

### SECTION 16: Other information Full text of H-Statements

H225
H319
Causes serious eye irritation.
H336
May cause drowsiness or dizziness.

#### Full text of other abbreviations

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 - 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



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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

Eye Irrit. 2 H319 Calculation method

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

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