according to Regulation (EC) No. 1907/2006

# schülke - 1-

thermodent® clear

No Change Service! Revision Date:

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

#### 1.1 Product identifier

Trade name

: thermodent® clear

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

Use of the Sub-

: Additive

stance/Mixture

Recommended restrictions

: Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier

: 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 Department HI +49 (0)40/ 521 00 8800

ADHI@schuelke.com

(Schülke & Mayr UK Ltd.: +44-1142543500)

#### 1.4 Emergency telephone number

Emergency telephone num-

: UK Poisons Emergency number: 0870 600 6266

ber

Emergency telephone num-

: +49 (0)40 / 52 100 -0

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2

H315: Causes skin irritation.

Serious eye damage, Category 1

H318: Causes serious eye damage.

#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word

Danger

Hazard statements

H315

Causes skin irritation.

H318

Causes serious eye damage.

Precautionary statements

P280

Wear protective gloves/ protective clothing/

eye protection/ face protection.

P302+P352

IF ON SKIN: Wash with plenty of soap and

water.

P305+P351+P338+P310

IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/doctor.

Further information

: 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.

No special risks known.

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

#### 3.2 Mixtures

Chemical nature

: Solution of the following substances with harmless additives.

#### **Hazardous components**

Chemical name	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Sodium cumenesulfonate	15763-76-5 239-854-6 01-2119489411-37- XXXX	Eye Irrit. 2; H319	5 - 15
Alkylpolyethylen-glycol- polybutylen-glycolether	 144046-60-6 Polymer	Skin Irrit. 2; H315 Eye Dam. 1; H318	5 - 15

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Ethanol

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603-002-00-5

64-17-5

Flam. Liq. 2; H225 Eye Irrit. 2; H319

3 - 8

200-578-6

01-2119457610-43-

XXXX

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

General advice

: Take off all contaminated clothing immediately.

In case of skin contact

Wash with water and soap as a precaution.

In case of eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes. Obtain medical attention.

If swallowed

: Do NOT induce vomiting. Drink water as a precaution. If

symptoms persist, call a physician.

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

Symptoms

: Treat symptomatically.,

### 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

: High volume water jet

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

Specific hazards during fire-

: none

fighting

Specific risk from the substance or the product itself, its combustion products or

: No special risks to be expected.

#### 5.3 Advice for firefighters

Special protective equipment

for firefighters

evolved gases

: 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

: No special precautions required.

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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

: Wear personal protective equipment.

Advice on protection against

: No special protective measures against fire required.

fire and explosion Hygiene measures

: Keep away from food and drink.

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-

: Keep away from heat. Keep container tightly closed.

age conditions

Advice on common storage

: No materials to be especially mentioned.

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
Ethanol	64-17-5	WEL	1,000 ppm 1,920 mg/m3	HSE

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Sodium cumenesul- fonate	Workers	Skin contact	Long-term systemic effects	7.6 mg/kg
	Workers	Inhalation	Long-term systemic effects	53.6 mg/m3
Ethanol	Workers	Inhalation	Acute effects, Local effects	1900 mg/m3
	Workers	Skin contact	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m3

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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Sodium cumenesulfonate	Fresh water	0.23 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	100 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

#### 8.2 Exposure controls

Personal protective equipment

Eye protection

: Safety glasses with side-shields conforming to EN166

Hand protection

Directive

: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC 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. Prolonged 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 protection.

Protective measures

: Avoid contact with eyes.

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

#### 9.1 Information on basic physical and chemical properties

Appearance

Colour

liquid

nearly colourless

Odour

characteristic

Odour Threshold

not determined ca. 4, 20 °C, concentrate

Hq

ca. 0 °C

Melting point/freezing point Decomposition temperature

Not applicable

Boiling point/boiling range

Flash point

ca. 100 °C 57 °C, DIN 51755 Part 1

Other information: Does not sustain combustion. No data available

Evaporation rate Flammability (solid, gas)

Not applicable

Upper explosion limit

No data available

Lower explosion limit Relative vapour density

No data available No data available

Density Solubility(ies) ca. 1.037 g/cm3, 20 °C

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Water solubility

in all proportions, 20 °C

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature

: No data available

Explosive properties

: No data available

Oxidizing properties

: No data available

#### 9.2 Other information

No data available

#### **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

None reasonably foreseeable.

#### 10.4 Conditions to avoid

Protect from frost, heat and sunlight.

#### 10.5 Incompatible materials

None reasonably foreseeable.,

#### 10.6 Hazardous decomposition products

None reasonably foreseeable.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

#### **Product:**

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg

Acute inhalation toxicity

Acute toxicity estimate: > 50 mg/l : Acute toxicity estimate: > 15,000 mg/kg

Acute dermal toxicity Skin corrosion/irritation

#### Product:

Causes skin irritation., Calculation method

#### Serious eye damage/eye irritation

Causes serious eye damage., Calculation method

#### Respiratory or skin sensitisation

#### Components:

#### Sodium cumenesulfonate:

Did not cause sensitisation on laboratory animals. Buehler Test, Guinea pig, OECD Test Guideline 406

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Alkylpolyethylen-glycol-polybutylen-glycolether:

No data available

Ethanol:

Did not cause sensitisation on laboratory animals. Maximisation Test, Guinea pig

Germ cell mutagenicity

Components:

Sodium cumenesulfonate:

Genotoxicity in vitro

: Mutagenicity (Salmonella typhimurium - reverse mutation assay), with and without metabolic activation, OECD Test Guide-

line 471, Not mutagenic in Ames Test

Genotoxicity in vivo

In vivo micronucleus test, Mouse, Oral, not mutagenic

Germ cell mutagenicity- As-

Not mutagenic in Ames Test

sessment

Alkylpolyethylen-glycol-polybutylen-glycolether:

Germ cell mutagenicity- As-

: No data available

sessment Ethanol:

Genotoxicity in vitro

Genotoxicity in vivo

: OECD Test Guideline 471, Not mutagenic in Ames Test not mutagenic

Tests on bacterial or mammalian cell cultures did not show

Germ cell mutagenicity- As-

mutagenic effects.

sessment

Carcinogenicity

Components:

Sodium cumenesulfonate:

Carcinogenicity - Assess-

: Animal testing did not show any carcinogenic effects.

ment

Alkylpolyethylen-glycol-polybutylen-glycolether:

Carcinogenicity - Assess-

: No data available

ment Ethanol:

Carcinogenicity - Assess-

: Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Components:

Sodium cumenesulfonate: Effects on foetal develop-

: Rat, Oral, NOAEL: 3,000 mg/kg, NOAEL: 3,000 mg/kg

ment

Reproductive toxicity - As-

: study scientifically unjustified

sessment

Alkylpolyethylen-glycol-polybutylen-glycolether: Reproductive toxicity - As-

: No data available

sessment

Ethanol:

Rat. Oral, NOAEL: 2,000 mg/kg

Reproductive toxicity - Assessment

: In animal testing, risk of impaired fertility was shown only after

administration of very high doses of this substance.

STOT - single exposure

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Ethanol:

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

Sodium cumenesulfonate:

Mouse, NOAEL: 440 mg/kg, LOAEL: 1,300 mg/kg, Dermal, Target Organs: Skin, Subchronic

toxicity

Ethanol:

Rat, NOAEL: 1,730 mg/kg, LOAEL: 3,160 mg/kg, Oral90 d

**Aspiration toxicity** 

No data available

**Further information** 

**Product:** 

No data is available on the product itself.

**SECTION 12: Ecological information** 

12.1 Toxicity

Components:

Sodium cumenesulfonate:

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l, 96 Toxicity to fish

h, literature value : EC50 (Daphnia magna (Water flea)): > 100 mg/l, 48 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l,

Toxicity to algae

72 h

Alkylpolyethylen-glycol-polybutylen-glycolether:

Toxicity to fish

LC50 (Leuciscus idus): 1 - 10 mg/l, 96 h No data available

Toxicity to daphnia and other

aquatic invertebrates

: No data available

Toxicity to algae Ethanol:

Toxicity to fish

Toxicity to daphnia and other

: LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l, 48 h : EC50 (Daphnia magna (Water flea)): > 5,000 mg/l, 48 h

aquatic invertebrates Toxicity to algae

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

72 h

12.2 Persistence and degradability

Product:

Biodegradability

Readily biodegradable., OECD 301D / EEC 84/449 C6

Chemical Oxygen Demand

(COD)

: ca. 6,200 mg/l ,1 % solution

Components:

Sodium cumenesulfonate:

 Readily biodegradable. Biodegradability

Alkylpolyethylen-glycol-polybutylen-glycolether:

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Biodegradability

: Readily biodegradable, according to appropriate OECD test.,

OECD 302B/ ISO 9888/ EEC 88/302C

Ethanol:

Biodegradability

: Readily biodegradable.

#### 12.3 Bioaccumulative potential

#### Components:

Sodium cumenesulfonate:

Bioaccumulation is unlikely. Bioaccumulation

Alkylpolyethylen-glycol-polybutylen-glycolether: : No data available Bioaccumulation

Ethanol:

Bioaccumulation Partition coefficient: n: Bioaccumulation is unlikely. : log Pow: -0.14, calculated

octanol/water

#### 12.4 Mobility in soil

#### Components:

Sodium cumenesulfonate:

Not expected to adsorb on soil. Mobility

Alkylpolyethylen-glycol-polybutylen-glycolether: Mobility

: No data available

Ethanol:

Mobility

: 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:

Additional ecological infor-

: none

mation

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Product** 

Dispose of the product according to the defined EWC (Euro-

pean Waste Code) No.

Contaminated packaging

Take empty packaging to the recycling plant. : European waste catalog (EWC) 070601

Waste key for the unused product

Waste key for the unused

product(Group)

: Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

#### **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

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#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not classified as supporting combustion according to the transport regulations. For personal protection see section 8.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 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

REACH - Candidate List of Substances of Very High

: Not applicable

Concern for Authorisation (Article 59).

Regulation (EC) No 850/2004 on persistent organic pol-

: Not applicable

Legislation on the control of

major-accident hazards involving dangerous substanc: Directive 96/82/EC does not apply

Volatile organic compounds

Volatile organic compounds (VOC) content: 5 %, Directive 2010/75/EC on the limitation of emissions of volatile organic

compounds

Other regulations

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

#### 15.2 Chemical safety assessment

Exempt

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

#### **Full text of H-Statements**

H225

Highly flammable liquid and vapour.

H315 : Causes skin irritation.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation.

#### Full text of other abbreviations

Eye Dam. : Serious eye damage

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Eye Irrit. Flam. Liq. Skin Irrit. Eye irritation Flammable liquids Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Classification and procedure used to derive the classifikation for mixtures according to Regulation (EC) No. 1272/2008

Skin Irrit. 2, H315 Eye Dam. 1, H318 : Calculation method : Calculation method

Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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