

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -t

THERMOSEPT ER -CDN-

5 I KA

No Change Service!

Version 02.07

Revision Date 29.10.2012

Print Date 22.07.2013

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : THERMOSEPT ER -CDN- 5 I KA

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

Use of the Sub- : Cleaning agent
stance/Mixture
Recommended restrictions : Restricted to professional users.
on use

1.3 Details of the supplier of the safety data sheet

Producer/Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt
Germany
Telephone: +4940521000
Telefax: +494052100318
mail@schuelke.com
www.schuelke.com

Contact person : Application Department HI
+49 (0)40/ 521 00 544 (Schülke UK +44 114 254 3500)
pab@schuelke.com

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
ber

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

|| This mixture is not classified as dangerous according to Directive 1999/45/EC.

2.2 Label elements

In the EU, this product falls under the Directive medical devices 93/42/EEC. The product does not need to be labelled in accordance with EC directives or respective national laws.

Special labelling of certain : Labelling according to Regulation (EC) No. 648/2004: (5 - 15 %
mixtures : non-ionic surfactants, enzymes)

Further information : The product is classified in accordance with Annex VI (2.2.5) to
Directive 67/548/EEC.

2.3 Other hazards

|| No special risks known.

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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 (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Alcohols, C13-15- branched and linear, butoxylated ethoxylated	111905-53-4 Polymer	Xi-N; R36/38-R50	2; H315 2; H319 Aquatic Acute 1; H400	5 - 15 %
Alkylpolyethylen-glycol- polybutylen-glycolether	Polymer	Xi; R38	Skin Irrit. 2; H315 Eye Dam. 1; H318	5 - 15 %
Ethanol	603-002-00-5 64-17-5 200-578-6 01- 2119457610- 43-XXXX	F; R11	Flam. Liq. 2; H225	5 - 15 %
Sodium cumenesul- fonate	15763-76-5 239-854-6 01- 2119489411- 37-XXXX	Xi; R36	Eye Irrit. 2; H319	< 5 %

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures**4.1 Description of first aid measures**

General advice	: Take off contaminated clothing and shoes immediately.
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	: Do NOT induce vomiting. Drink water as a precaution. Consult a physician if necessary.

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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.

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-fighting : none

5.3 Advice for firefighters

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

Specific risk from the substance or the product itself, its combustion products or evolved gases : No special risks known.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Increased risk of slipping in the presence of leaked / spilled product.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials 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 chapter 8 + 13

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7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : not required under normal use

Advice on protection against fire and explosion : No special protective measures against fire required.

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 storage conditions : Keep away from heat.
Keep away from direct sunlight.
Keep container tightly closed.

Advice on common storage : Keep away from food and drink.

7.3 Specific end use(s)

||none

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Basis
Ethanol	64-17-5	Permissible exposure limit	500 ppm 960 mg/m ³	TRGS 900
Ethanol	64-17-5	Ceiling Limit Value	1.000 ppm 1.920 mg/m ³	TRGS 900
Ethanol	64-17-5	Permissible exposure limit	1.000 ppm 1.900 mg/m ³	OSHA

8.2 Exposure controls

Personal protective equipment

Hand protection : 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.

||Eye protection : If splashes are likely to occur, wear:
Safety glasses

Hygiene measures : Keep away from food and drink.

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Protective measures : Avoid contact with skin and eyes.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : light yellow
Odour : alcohol-like

Flash point : 45 °C, DIN 51755 Part 1
Ignition temperature : Ethanol: > 360 °C
Lower explosion limit : Ethanol: 3,1 %(V)
Upper explosion limit : Ethanol: 15 %(V)
Flammability : Does not sustain combustion.

|| Explosive properties : Not explosive
|| Oxidizing properties : not determined
|| Auto-ignition temperature : not applicable
pH : 6 - 7,5, 20 °C, concentrate
Melting point/freezing point : < -5 °C
|| Decomposition temperature : no data available
Boiling point/boiling range : ca. 90 °C
Vapour pressure : ca. 50 hPa, 20 °C
Density : ca. 1,01 g/cm³, 20 °C
Water solubility : > 100 g/l, 20 °C
|| Partition coefficient: n-octanol/water : not applicable
Flow time : < 15 s, 20 °C, DIN 53211
|| Relative vapor density : no data available
|| Evaporation rate : no data available

9.2 Other information

None known.

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

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Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Do not mix with other products.

10.6 Hazardous decomposition products

Decomposition products : None reasonably foreseeable.

11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Alcohols, C13-15-branched and linear, butoxylated ethoxylated : LD50: > 2000 mg/kg, rat
Alkylpolyethylen-glycol-polybutylen-glycolether : LD50: > 2000 mg/kg, rat
Ethanol : LD50: 8300 mg/kg, mouse
Sodium cumenesulfonate : LD50: > 2000 mg/kg, rat, OECD Test Guideline 401

Acute inhalation toxicity

Alcohols, C13-15-branched and linear, butoxylated ethoxylated : no data available
Alkylpolyethylen-glycol-polybutylen-glycolether : LC50: 8 h, rat, An LC50/ inhalation could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Ethanol : LC50: 11200 mg/l, 1 h, mouse
Sodium cumenesulfonate : LC50: < 5 mg/l, rat

Acute dermal toxicity

Alcohols, C13-15-branched and linear, butoxylated ethoxylated : no data available
Alkylpolyethylen-glycol-polybutylen-glycolether : no data available
Ethanol : LD50: 20000 mg/kg, rabbit
Sodium cumenesulfonate : LD50: > 2000 mg/kg, rabbit

Skin irritation

Alcohols, C13-15-branched and linear, butoxylated ethoxylated : rabbit, Result: irritating, OECD Test Guideline 404
Alkylpolyethylen-glycol-polybutylen-glycolether : rabbit, Result: irritating

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Ethanol : rabbit, Result: No skin irritation
Sodium cumenesulfonate : rabbit, Result: No skin irritation, OECD Test Guideline 404

Eye irritation

Alcohols, C13-15-branched and linear, butoxylated ethoxylated : rabbit, Result: irritating, OECD Test Guideline 405
Alkylpolyethylen-glycol-polybutylen-glycolether : rabbit, Result: Risk of serious damage to eyes.
Ethanol : rabbit, Result: Mild eye irritation
Sodium cumenesulfonate : rabbit, Result: Irritating to eyes., OECD Test Guideline 405

Sensitisation

Alcohols, C13-15-branched and linear, butoxylated ethoxylated : no data available
Alkylpolyethylen-glycol-polybutylen-glycolether : no data available
Ethanol : Maximisation Test, guinea pig, Result: Did not cause sensitization on laboratory animals.
Sodium cumenesulfonate : Buehler Test, guinea pig, Result: Did not cause sensitization on laboratory animals., OECD Test Guideline 406

Germ cell mutagenicity

Ethanol : Result: Not mutagenic in Ames Test. , OECD Test Guideline 471
Sodium cumenesulfonate : Mutagenicity (Salmonella typhimurium - reverse mutation assay), with or without metabolic activation, Result: Not mutagenic in Ames Test. , OECD Test Guideline 471

Genotoxicity in vivo

Ethanol : Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Result: not mutagenic
Sodium cumenesulfonate : In vivo micronucleus test, mouse, Oral, Result: not mutagenic

Mutagenicity

Alcohols, C13-15-branched and linear, butoxylated ethoxylated : no data available
Alkylpolyethylen-glycol-polybutylen-glycolether : no data available
Ethanol : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Sodium cumenesulfonate : Not mutagenic in Ames Test.

Carcinogenicity

Alcohols, C13-15-branched : no data available

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and linear, butoxylated ethoxylated

Alkylpolyethylen-glycol-polybutylen-glycoether : no data available

Ethanol : Did not show carcinogenic effects in animal experiments.

Sodium cumenesulfonate : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Alcohols, C13-15-branched and linear, butoxylated ethoxylated : no data available

Alkylpolyethylen-glycol-polybutylen-glycoether : no data available

Ethanol : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.

Sodium cumenesulfonate : study scientifically unjustified

Teratogenicity

Ethanol : rat, Oral, NOAEL: 2.000 mg/kg

Sodium cumenesulfonate : rat, Oral, NOAEL: 3.000 mg/kg, 3.000 mg/kg

Teratogenicity

Alcohols, C13-15-branched and linear, butoxylated ethoxylated : no data available

Alkylpolyethylen-glycol-polybutylen-glycoether : no data available

Ethanol : Animal experiments showed mutagenic and teratogenic effects.

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

Repeated dose toxicity

Ethanol : rat, Oral, NOAEL: 2.400 mg/kg

Sodium cumenesulfonate : mouse, Dermal, NOAEL: 440 mg/kg, LOAEL: 1.300 mg/kg, Skin, Subchronic toxicity

Further information

: The classification was made according to the calculation procedure of the Preparations Directive.

12. Ecological information

12.1 Toxicity

Toxicity to fish

Alcohols, C13-15-branched and linear, butoxylated eth-

: LC50: 1 - 10 mg/l, 48 h, Leuciscus idus

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oxylated

Alkylpolyethylen-glycol-
polybutylen-glycolether : LC50: 1 - 10 mg/l, 96 h, Leuciscus idus

Ethanol : LC50: 8.140 mg/l, 48 h, Leuciscus idus (Golden orfe)

Sodium cumenesulfonate : LC50: > 100 mg/l, 96 h, literature value

Toxicity to daphnia and other aquatic invertebrates

Alcohols, C13-15-branched
and linear, butoxylated eth-
oxylated : EC50: 0,1 - 1 mg/l, 48 h

Alkylpolyethylen-glycol-
polybutylen-glycolether : no data available

Ethanol : EC50: > 5.000 mg/l, 48 h, Daphnia magna (Water flea)

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

Toxicity to algae

Alcohols, C13-15-branched
and linear, butoxylated eth-
oxylated : EC50: 0,1 - 1 mg/l, 72 h

Alkylpolyethylen-glycol-
polybutylen-glycolether : no data available

Ethanol : IC50: > 100 mg/l, 72 h, Scenedesmus quadricauda (Green
algae)

Sodium cumenesulfonate : EC50: > 100 mg/l, 72 h, Desmodesmus subspicatus (green
algae)

Toxicity to bacteria : EC50: 3.750 mg/l, OECD 209

12.2 Persistence and degradability

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

Chemical Oxygen Demand
(COD) : 12.300 mg/l, Test substance: 1% solution

12.3 Bioaccumulative potential

Bioaccumulation

Alcohols, C13-15-branched
and linear, butoxylated eth-
oxylated : no data available

Alkylpolyethylen-glycol-
polybutylen-glycolether : no data available

Ethanol : Bioaccumulation is unlikely.

Sodium cumenesulfonate : Bioaccumulation is unlikely.

Partition coefficient: n-
octanol/water : not applicable

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12.4 Mobility in soil

Mobility

Alcohols, C13-15-branched and linear, butoxylated ethoxylated	: no data available
Alkylpolyethylen-glycol-polybutylen-glycoether	: no data available
Ethanol	: no data available
Sodium cumenesulfonate	: Not expected to adsorb on soil.

12.5 Results of PBT and vPvB assessment

Assessment	: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
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12.6 Other adverse effects

Additional ecological information	: none
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13. Disposal considerations

13.1 Waste treatment methods

Product	: Dispose of the product according to the defined EWC (European Waste Code) No.
Contaminated packaging	: Take empty packaging to the recycling plant.
Waste key for the unused product	: EWC 070601
Waste key for the unused product(Group)	: Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

14. Transport information

ADR	: UN number	none
	Proper shipping name	-
	Transport hazard class	-
	Packaging group	-
	Environmental hazards	-
	Classification Code	-
	ADR/RID-Labels	-
	ICAO-Labels	-
IMDG	: UN number	none
	Proper shipping name	-
	Transport hazard class	-
	Packaging group	-
	Environmental hazards	-
	EmS	-

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IATA	: UN number	none
	Proper shipping name	-
	Transport hazard class	-
	Packaging group	-
	Environmental hazards	-

Special precautions for user

none

Further information : Not classified as supporting combustion according to the transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Exempt

15. Regulatory information

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

Legislation on the control of major-accident hazards involving dangerous substances : Directive 96/82/EC does not apply

Other regulations : The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Volatile organic compounds (VOC) content : 10 %
Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

15.2 Chemical Safety Assessment

Exempt

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R11	Highly flammable.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R50	Very toxic to aquatic organisms.

Full text of H-Statements referred to under sections 2 and 3.

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H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

Further information

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.