

thermosept® X-tra **No Change Service!**

Version Revision Date: Date of last issue: 28.02.2020
04.04 19.10.2020 Date of first issue: 03.04.2012

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : thermosept® X-tra

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

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 : Application Department
responsible for the +49 (0)40/ 521 00 666
SDS/Contact person AD@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone num- : UK Poisons Emergency number: 0870 600 6266
ber Carechem 24 International:+44 1235 239670

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.

Eye irritation, Category 2 H319: Causes serious eye irritation.

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Warning

Hazard Statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.Precautionary Statements : **Prevention:**
P280 Wear protective gloves/ eye protection/ face protection.**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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.

Additional Labelling

EUH208 Contains subtilisin. May produce an allergic reaction.

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.

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
sodium p-cumenesulphonate	15763-76-5 239-854-6 - - - 01-2119489411-37-XXXX	Eye Irrit. 2; H319	>= 1 - < 10
2-aminoethanol	141-43-5 205-483-3 603-030-00-8	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312	>= 2.5 - < 3

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

	01-2119486455-28-XXXX	Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Chronic 3; H412	
sodium etasulfate	126-92-1 204-812-8 --- 01-2119971586-23-XXXX	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 3
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	120313-48-6 --- --- ---	Skin Irrit. 2; H315 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 3; H412	>= 0.25 - < 1
subtilisin	9014-01-1 232-752-2 647-012-00-8 01-2119480434-38-XXXX	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT SE 3; H335 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411	>= 0.1 - < 0.25

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.
- If inhaled : If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.
- In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.
Drink water as a precaution.
Call a physician immediately.

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.

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

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 storage conditions : Recommended storage temperature: 5 - 25°C Protect from frost, heat and direct sunlight.

Advice on common storage : Do not store together with explosive, infectious and radioactive products.

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
propane-1,2-diol	57-55-6	TWA (particles)	10 mg/m ³	GB EH40
		Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.		
		TWA (Total vapour and particles)	150 ppm 474 mg/m ³	GB EH40
		Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.		
glycerol	56-81-5	TWA (Mist)	10 mg/m ³	GB EH40
		Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.		
2-aminoethanol	141-43-5	TWA	1 ppm 2.5 mg/m ³	2006/15/EC
		Further information: Indicative, Identifies the possibility of significant uptake through the skin		
		STEL	3 ppm 7.6 mg/m ³	2006/15/EC
		Further information: Indicative, Identifies the possibility of significant uptake through the skin		
		TWA	1 ppm 2.5 mg/m ³	GB EH40
		Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		
		STEL	3 ppm 7.6 mg/m ³	GB EH40
		Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will		

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



thermosept® X-tra No Change Service!

Version
04.04

Revision Date:
19.10.2020

Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

	lead to systemic toxicity.			
subtilisin	9014-01-1	TWA	0.00004 mg/m3	GB EH40
	<p>Further information: One of the suitable measurement methods is the fluorescence polarisation technique developed by the Health and Safety Laboratory (HSL). The previous limit for subtilisin was based on high-volume static sampling to achieve sufficient sensitivity. However, improvements in the analytical methodology have improved the sensitivity and the WEL for subtilisin reflects this. The limit is based on standard personal sampling (MDHS14/4).4 Short-term reference period (15 minute) sampling is not appropriate., Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even in tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified as asthmagens or respiratory sensitisers. Further information can be found in the HSE publication Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced to as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Subtilisins are proteolytic enzymes derived from Bacillus subtilis. They are used in biological washing powders, animal feedstuffs etc. The enzyme preparation contains active enzyme, inactive enzyme and protein residues., Capable of causing occupational asthma., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma in the categories shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further information.</p>			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Workers	Inhalation	Long-term local effects	10 mg/m3
sodium p-cumenesulphonate	Workers	Skin contact	Long-term systemic effects	136.25 mg/kg
	Workers	Skin contact	Long-term local effects	0.096 mg/cm2

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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thermosept® X-tra **No Change Service!**

Version
04.04

Revision Date:
19.10.2020

Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

			ffects	
	Workers	Inhalation	Long-term systemic effects	26.9 mg/m3
2-aminoethanol	Workers	Skin contact	Long-term systemic effects	1 mg/kg
	Workers	Inhalation	Long-term local effects	3.3 mg/m3
sodium etasulfate	Workers	Skin contact	Long-term systemic effects	4060 mg/kg
	Workers	Inhalation	Long-term systemic effects	285 mg/m3
subtilisin	Workers	Skin contact	Acute local effects	2000 ppm
	Workers	Inhalation	Long-term local effects	0.00006 mg/m3

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

Substance name	Environmental Compartment	Value
propane-1,2-diol	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg
	Marine sediment	57.2 mg/kg
	Soil	50 mg/kg
sodium p-cumenesulphonate	Fresh water	0.23 mg/l
	Marine water	0.023 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0.862 mg/kg
	Marine sediment	0.0862 mg/kg
	Soil	0.037 mg/kg
2-aminoethanol	Fresh water	0.085 mg/l
	Marine water	0.0085 mg/l
	Intermittent use/release	0.028 mg/l
	Effects on waste water treatment plants	100 mg/l
	Fresh water sediment	0.425 mg/kg
	Marine sediment	0.0425 mg/kg
	Soil	0.035 mg/kg
sodium etasulfate	Fresh water	0.136 mg/l
	Marine water	0.0136 mg/l
	Fresh water sediment	1.5 mg/kg
	Marine sediment	0.15 mg/kg
	Soil	0.22 mg/kg
	Effects on waste water treatment plants	1.35 mg/l
subtilisin	Fresh water	0.00006 mg/l
	Marine water	0.000006 mg/l
	Effects on waste water treatment plants	65 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

Directive	:	The selected protective gloves have to satisfy the specifications 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. 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.
Skin and body protection	:	Work uniform or laboratory coat.
Respiratory protection	:	No personal respiratory protective equipment normally required.
Protective measures	:	Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	:	liquid
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	not determined
pH	:	11 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	Not applicable
Initial boiling point and boiling range	:	ca. 100 °C
Flash point	:	> 100 °C Method: DIN 51755 Part 1
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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thermosept® X-tra **No Change Service!**

Version Revision Date: Date of last issue: 28.02.2020
04.04 19.10.2020 Date of first issue: 03.04.2012

Vapour density	:	No data available
Relative density	:	ca. 1.10 g/cm ³ (20 °C, 1,013 hPa)
Solubility(ies)		
Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	ca. 9 mPa*s Method: ISO 3219
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2 Other information

Flammability (liquids) : Does not sustain combustion.

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 : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Possible incompatibility with alkali sensitive materials.

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:**sodium p-cumenesulphonate:**

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg

2-aminoethanol:

Acute oral toxicity	:	(Rat): 1,515 mg/kg Method: OECD Test Guideline 401 Assessment: Harmful if swallowed.
Acute inhalation toxicity	:	(Rat): > 1.3 mg/l Exposure time: 6 h Test atmosphere: vapour Assessment: Harmful if inhaled.
Acute dermal toxicity	:	Assessment: Harmful in contact with skin. Remarks: No data available

sodium etasulfate:

Acute oral toxicity	:	LD50 (Rat): 2,840 mg/kg
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: Calculated value
Acute inhalation toxicity	:	Remarks: not determined
Acute dermal toxicity	:	Remarks: not determined

subtilisin:

thermosept® X-tra *No Change Service!*Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

Acute oral toxicity : LD50 (Rat): 1,800 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation**Product:**

Remarks : Causes skin irritation.

Components:**sodium p-cumenesulphonate:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : slight irritation
Remarks : Based on available data, the classification criteria are not met.

2-aminoethanol:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 3 minutes to 1 hour of exposure

sodium etasulfate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Species : Rabbit
Method : Draize Test
Result : Skin irritation

subtilisin:

Method : OECD Test Guideline 404
Result : Skin irritation

Serious eye damage/eye irritation**Product:**

Remarks : Causes serious eye irritation.

Components:**sodium p-cumenesulphonate:**

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

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012**2-aminoethanol:**

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Risk of serious damage to eyes.

sodium etasulfate:

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

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: No eye irritation

subtilisin:

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

Respiratory or skin sensitisation**Components:****sodium p-cumenesulphonate:**

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

2-aminoethanol:

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

sodium etasulfate:

Method	: OECD Test Guideline 429
Result	: Did not cause sensitisation on laboratory animals.

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Remarks	: No data available
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subtilisin:

Result	: Probability of respiratory sensitisation in humans based on animal testing
Remarks	: largely based on human evidence

thermosept® X-tra *No Change Service!*Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012**Germ cell mutagenicity****Components:****sodium p-cumenesulphonate:**

Genotoxicity in vitro	:	Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: Not mutagenic in Ames Test
Genotoxicity in vivo	:	Test Type: In vivo micronucleus test Species: Mouse Application Route: Oral Result: Non mutagenic
Germ cell mutagenicity- Assessment	:	Not mutagenic in Ames Test

2-aminoethanol:

Genotoxicity in vitro	:	Result: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Genotoxicity in vivo	:	Result: Did not show mutagenic effects in animal experiments.
Germ cell mutagenicity- Assessment	:	Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

sodium etasulfate:

Genotoxicity in vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Test system: Bacteria Method: OECD Test Guideline 471 Result: negative
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Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Genotoxicity in vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Result: negative
Germ cell mutagenicity- Assessment	:	Based on available data, the classification criteria are not met.

subtilisin:

Genotoxicity in vitro	:	Method: OECD Test Guideline 471 Result: Non mutagenic
Germ cell mutagenicity- Assessment	:	Animal testing did not show any mutagenic effects.

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012**Carcinogenicity****Components:****sodium p-cumenesulphonate:**

Species	: Rat
Exposure time	: 2 Years
Method	: OECD Test Guideline 453
Result	: no increase in tumors observed

Carcinogenicity - Assessment	: Animal testing did not show any carcinogenic effects.
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2-aminoethanol:

Carcinogenicity - Assessment	: Not classifiable as a human carcinogen.
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sodium etasulfate:

Species	: Rat
Application Route	: Oral
Exposure time	: 2 Years
Dose	: > 1125 mg/kg body weight

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
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subtilisin:

Carcinogenicity - Assessment	: No data available
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Reproductive toxicity**Components:****sodium p-cumenesulphonate:**

Effects on fertility	: Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL: 300 mg/kg bw/day General Toxicity F1: NOAEL: 1,000 mg/kg bw/day Method: OECD Test Guideline 421
Effects on foetal development	: Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 936 mg/kg body weight Teratogenicity: NOAEL: 936 mg/kg bw/day
Reproductive toxicity - Assessment	: study scientifically unjustified Based on available data, the classification criteria are not met.

2-aminoethanol:

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

Effects on fertility	: Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL: 300 mg/kg body weight General Toxicity F1: NOAEL: 1,000 mg/kg body weight General Toxicity F2: NOAEL: 1,000 mg/kg body weight Method: OECD Test Guideline 416 Result: Animal testing did not show any effects on fertility.
Reproductive toxicity - Assessment	: Based on available data, the classification criteria are not met. Animal testing did not show any effects on foetal development.

sodium etasulfate:

Effects on foetal development	: Species: Rat Application Route: Oral Dose: 250 milligram per kilogram Result: negative Remarks: Did not show teratogenic effects in animal experiments.
Reproductive toxicity - Assessment	: No data available

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Reproductive toxicity - Assessment	: Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
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subtilisin:

Reproductive toxicity - Assessment	: No data available No data available
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STOT - single exposure**Components:****sodium p-cumenesulphonate:**

Assessment	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
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2-aminoethanol:

Assessment	: May cause respiratory irritation.
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sodium etasulfate:

Remarks	: No data available
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Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Remarks	: No data available
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thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012**subtilisin:**

Target Organs	:	Respiratory Tract
Assessment	:	May cause respiratory irritation.

STOT - repeated exposure**Components:****sodium p-cumenesulphonate:**

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

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

Remarks	:	No data available
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Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Remarks	:	No data available
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Repeated dose toxicity**Components:****sodium p-cumenesulphonate:**

Species	:	Rat
NOAEL	:	763 mg/kg
Application Route	:	Oral
Target Organs	:	Cardio-vascular system
Remarks	:	Subchronic toxicity

Species	:	Rat
NOAEL	:	60 mg/kg
Application Route	:	Dermal
Exposure time	:	2 year
Method	:	OECD Test Guideline 453
Target Organs	:	Skin

sodium etasulfate:

Species	:	Rabbit
NOAEL	:	488 mg/kg
Application Route	:	Oral
Exposure time	:	90-day
Number of exposures	:	7 Tage pro Woche

Species	:	Mouse
NOAEL	:	400 mg/kg
Application Route	:	Skin contact
Exposure time	:	90-day

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

||| Number of exposures : 2 Tage pro Woche

Aspiration toxicity**Components:****Alcohols, C12-15-branched and linear, ethoxylated propoxylated:**

||| Due to the viscosity, this product does not present an aspiration hazard.

Experience with human exposure**Components:****2-aminoethanol:**

||| General Information : Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

Further information**Product:**

Remarks : The product has not been tested.

SECTION 12: Ecological information**12.1 Toxicity****Components:****sodium p-cumenesulphonate:**

||| Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h

||| Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

||| Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h

2-aminoethanol:

||| Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 349 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Tested according to Directive 92/69/EEC.

||| Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 65 mg/l
Exposure time: 48 h
Method: EG 84/449

||| Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 2.5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

thermosept® X-tra No Change Service!Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

Toxicity to fish (Chronic toxicity)	: 1.2 mg/l Exposure time: 30 d Species: Oryzias latipes (Orange-red killifish)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0.85 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

sodium etasulfate:

Toxicity to fish	: LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 483 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): > 511 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	: NOEC: >= 1,357 mg/l Exposure time: 42 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 1.4 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Toxicity to fish	: LC50 (Leuciscus idus): 1 - 10 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna): 0.1 - 1 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 (algae): 0.1 - 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	: 1
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: > 0.1 - < 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

subtilisin:

Toxicity to fish	: LC50 (Fish): 8.2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other	: EC50 (Daphnia magna): 0.586 mg/l

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020

Date of last issue: 28.02.2020

Date of first issue: 03.04.2012

aquatic invertebrates	Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: ErC50 (algae): 0.83 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	: 1
Toxicity to fish (Chronic toxicity)	: NOEC: 0.017 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210
M-Factor (Chronic aquatic toxicity)	: 1

12.2 Persistence and degradability**Product:**

Biodegradability : Result: Readily biodegradable, according to appropriate OECD test.
Method: OECD 301D / EEC 84/449 C6

Components:**sodium p-cumenesulphonate:**

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

2-aminoethanol:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 21 d
Method: OECD Test Guideline 301A

sodium etasulfate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 89 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

||

Method: OECD Test Guideline 301B

subtilisin:

||

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301B**12.3 Bioaccumulative potential****Components:****sodium p-cumenesulphonate:**

||

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

2-aminoethanol:

||

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: -1.91

sodium etasulfate:

||

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: -0.248

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

||

Bioaccumulation : Remarks: Accumulation in aquatic organisms is unlikely.

subtilisin:

||

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: < 0

12.4 Mobility in soil**Components:****sodium p-cumenesulphonate:**

||

Mobility : Remarks: Not expected to adsorb on soil.

2-aminoethanol:

||

Mobility : Remarks: Not expected to adsorb on soil.

sodium etasulfate:

||

Mobility : Remarks: No data available

Alcohols, C12-15-branched and linear, ethoxylated propoxylated:

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

|| Mobility : Remarks: Substance does not evaporate from water surface into the atmosphere., Adsorption to solid soil phase is possible.

subtilisin:

|| 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:**

Additional ecological information : No data is available on the product itself.

SECTION 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 : European waste catalog (EWC) 070601*

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

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

thermosept® X-tra No Change Service!Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012**14.6 Special precautions for user**

Not applicable
For personal protection see section 8.

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**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
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: 3.72 %

Regulation (EC) No. 648/2004, as amended : 5 % or over but less than 15 %: Anionic surfactants
less than 5 %: Non-ionic surfactants, Polycarboxylates
Other constituents: Enzymes

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.

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

thermosept® X-tra **No Change Service!**Version
04.04Revision Date:
19.10.2020Date of last issue: 28.02.2020
Date of first issue: 03.04.2012

limit values.

15.2 Chemical safety assessment

Exempt

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

H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H400	: Very toxic to aquatic life.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
2006/15/EC	: Europe. Indicative occupational exposure limit values
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
2006/15/EC / TWA	: Limit Value - eight hours
2006/15/EC / STEL	: Short term exposure limit
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 - 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 Mari-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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thermosept® X-tra **No Change Service!**

Version Revision Date: Date of last issue: 28.02.2020
04.04 19.10.2020 Date of first issue: 03.04.2012

time 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; 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 of the mixture:

Skin Irrit. 2 H315
Eye Irrit. 2 H319

Classification procedure:

Calculation method
Calculation method

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

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.