



Alcoholic rub for hygienic and surgical hand disinfection.

**Norovirus-Efficacy
within time of hygienic
hand disinfection**

desderman® pure

Our Plus

- meets the FDA clinical efficacy standards (TFM)
- norovirus efficacy tested within hygienic hand disinfection
- excellent skin compatibility and pleasant skin feeling due to an established system of refatting agents
- colour and fragrance free, therefore hypoallergenic

Application areas

- hygienic hand disinfection (EN 1500): Rub 3 ml into clean dry hands, contact time: 30 sec.
- surgical hand disinfection (EN 12791): Rub a sufficient amount into clean dry hands and forearms, contact time 90 sec.

Instructions for use

desderman® pure is to be used undiluted. During the contact time for hygienic and surgical hand disinfection, desderman® pure should be applied in portions so that the hands respectively the hands and forearms remain well moistened during the entire application time.

Microbiological efficacy

Efficacy	Concentration	Contact time
bactericidal	ready-to-use	30 sec.
<i>Acinetobacter baumannii</i>	ready-to-use	30 sec.
<i>Pseudomonas aeruginosa</i>	ready-to-use	30 sec.
<i>Staphylococcus aureus</i>	ready-to-use	30 sec.
yeastcidal EN13624	ready-to-use	15 sec.
fungicidal EN13624	ready-to-use	30 sec.

Efficacy	Concentration	Contact time
virucidal against enveloped viruses in accordance with DVV (German Registered Association for Combating Viral Diseases)//RKI Guideline	ready-to-use	30 sec.
Influenza virus EN14476	ready-to-use	30 sec.
Vaccinia virus	ready-to-use	30 sec.
limited spectrum virucidal activity EN14476	ready-to-use	15 sec.
virucidal EN14476	ready-to-use	60 sec.
Adenovirus EN14476	ready-to-use	15 sec.
Norovirus EN14476, in accordance with DVV	ready-to-use	15 sec.
Poliovirus EN14476	ready-to-use	60 sec.
Rotavirus	ready-to-use	30 sec.

Application area	Concentration	Contact time
hygienic hand disinfection EN1500	ready-to-use	30 sec.
surgical hand disinfection EN12791	ready-to-use	90 sec.

Certificates

- VAH certificate



Product data

100 g solution contain:

Active ingredients: 78.2 g ethanol 96 %, 0.1 g biphenyl-2-ol

Chemical-physical data

Color	colourless
Density	approx. 0,83 g/cm ³ / 20 °C
Flash point	16 °C / Method : DIN 51755 Part 1
Form	liquid
pH	Not applicable

Special advice

Use disinfectants safely. Always read the label and product information before use.

Do not use after the expiry date.

Information for order

Item	Delivery form	Item no.
desderman pure INT hyclick 500 ml FL	20/Carton	on request
desderman pure INT hyclick 1 l FL	10/Carton	on request
desderman pure 975 l EC	1/Container	on request
desderman pure INT 5 l KA	1/Canister	on request

These products are not available in every country. For more information please contact our local subsidiary or distributor.

Application aids

Application aids	Item no.
Can key for 5 + 10 l	135810
Dispenser KHK 1000 (approx. 0.75-1.5ml per stroke)	669700
Dispenser KHK 500 (approx. 0.75-1.5ml per stroke)	669600
dosing pump for 500 ml/1l	180803
Product dispenser long arm 1000 ml	669710
Product dispenser long arm 500 ml	669610
schülke dosing feeder 5 l / 10 l (20ml / stroke)	117101
schülke tap for 5 l / 10 l can	135501
sm 2 500 (approx- 1.0-3.0ml per stroke)	668600
sm 2 Universal (approx. 1.0 - 3.0 ml per stroke)	668500

Related Products

- desderman[®] pure gel
- sensiva[®] dry skin balm
- sensiva[®] protective cream
- sensiva[®] protective emulsion
- sensiva[®] regeneration cream
- sensiva[®] wash lotion

Environmental information

schülke manufactures products economically and with advanced, safe and environmentally friendly production processes while at the same time maintaining our high quality standards.

Expert opinion and information

Please visit our website for an overview of all available literature/reports on the product: www.schuelke.com. For individual questions: Customer Sales Service Phone: +49 40 52100-666 E-Mail: info@schuelke.com



Schülke & Mayr GmbH holds a Manufacturer's Authorisation according to sect 13 para 1 German Drug Law and Certificates of GMP Compliance for medicinal products.

schülke Headquarters
Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt, Germany
Phone +49 40 - 52100 - 0
Fax +49 40 - 52100 - 318
www.schuelke.com
info@schuelke.com

schülke -+

Antiseptic pe bază de alcool pentru dezinfectarea igienică și chirurgicală a mâinilor

Eficient contra noovirusului în timpul dezinfectării igienice a mâinilor

desderman® pure

Avantajele noastre:

- bactericid (incl. TB) | fungicid | virucid contra virusurilor lipofile și hidrofile: polio, rotavirusuri, adenovirusuri, virusuri vaccinia și herpes simplex, HBV, HCV, HIV, norovirusuri
- eficiență testată contra noovirusului (15 sec.) în conformitate cu ultimele metode de testare (norovirusul uman)
- oferă un bonus de protecție și îngrijire a pielii prin agenții de restabilire a peliculei de grăsime
- nu conține coloranți și parfum, prin urmare este hipoalergic
- acțiune rapidă și uscare rapidă datorită bazei de etanol

Domenii de utilizare

- Dezinfectia igienică a mâinilor.
- Dezinfectarea chirurgicală a mâinilor.

Eficiența microbiologică

Desderman® pure este:

- bactericid (inclusiv bacilii TB) · fungicid · virucid pentru virusurile lipofile și hidrofile: virusurile polio-, rota-, adeno, vaccinia- și herpes simplex, HAV, HBV, HIV, HCV, norovirusuri

Instrucțiuni de dozare și metoda de folosire

Desderman® pure se folosește nediluat. În timpul perioadei de contact pentru dezinfectarea igienică și chirurgicală a mâinilor, desderman® pure trebuie să fie aplicat în asemenea proporție ca mâinile să rămână umede în timpul întregii perioade de aplicare.

Date privind produsul

Compoziția

100 g de soluție conține:

Ingrediente active:

78,2 g de etanol 96 %, 0,1 g de bifenil-2-ol.

Folosire	Recomandare de folosire
Dezinfectarea igienică a mâinilor (EN 1500)	30 sec. (3 ml)
Dezinfectarea chirurgicală a mâinilor (EN 12 791)	1,5 min (cantitate suficientă)*
VRE (enterococi vancomicinorezistenți)	30 sec.
Listeria monocytogenes	30 sec.
EHEC	30 sec.
MRSA (Tulpini microbiene multirezistente de Staphylococcus aureus)	30 sec.
Helicobacter pylori	30 sec.
Virucid contra virusurilor încapsulate (incl. HIV, HBV, HCV) conform recomandărilor RKI Bundesgesundheitsblatt 01-2004	30 sec.
Virusuri vaccinia	30 sec.
Poliovirusuri (cu sarcină)	3 min.
Poliovirusuri (fără sarcină)	1 min.
Adenovirusuri (tipul 2)	1 min.
Rotavirusuri	30 sec.
Virusuri herpes simplex	30 sec.
Norovirusuri** (EN 14 476)	15 sec.

* Fenolii au fost folosiți ca ingrediente în dezinfectanți timp de mai mult de 100 de ani, dat fiind că ei au proprietăți antimicrobiene. Unul din fenolii cei mai importanți este 2-bfenilolul, o substanță care, printre altele, este aprobată de OMS pentru conservarea fructelor de citrice, adică este o substanță folosită împreună cu alimentele. Fenolul este excepțional de bine tolerat de mediu, și este sigur de folosit, cu condiția că preparatele sunt folosite conform instrucțiunilor.

** Norovirusul uman conform EN 14 476

desderman® pure

Testul SELS

Folosirea frecventă a antisepticelor pentru mâini necesită o conformitate înaltă a produselor în termeni de compatibilitate a pielii, pe lângă eficiența microbiologică largă.

Pentru testarea desderman® pure a fost petrecut testul SELS (evaluarea suprafeței pielii).

Rezultat: Testarea desderman® pure pe 20 de voluntari în comparație cu un produs comparabil de pe piață și standardul de control a indicat că produsul dat are un efect extrem de blând asupra tuturor marcherilor pielii (a se vedea tabelele 1-4)

Etichetarea conform Directivelor CE

F: Foarte inflamabil.

R11: Foarte inflamabil.

S7/9: A se păstra recipientul închis ermetic și într-un loc bine ventilat.

S16: A se păstra departe de orice flacără sau sursă de scânteie – Fumatul interzis.

S35: A se elimina reziduurile produsului și ambalajul după ce s-au luat toate măsurile de precauție. (valabil numai pentru Elveția)

Note speciale

Temperatura de aprindere 16 °C (conform DIN 51 755)

A nu se folosi după data expirării. A nu se folosi lângă sursele de aprindere.

Folosiți agenții dezinfectanți în siguranță. Citiți întotdeauna eticheta și informația despre produs înainte de folosire.

Forme de livrare/Unități de ambalare

Dimensiunea ambalajului	Unitatea de ambalare	Articol nr.
Flacon 150 ml	30 x 150 ml	116 806
Flacon 500 ml	20 x 500 ml	116 807
Flacon de distribuire 1 l	10 x 1 l	116 808
Flacon Euro 1 l*	10 x 1 l	116 809
Canistră 5 l	1 x 5 l	116 810

* nu este disponibil pe toate piețele

Informație privind ambalajul

desderman® pure gel este livrat în flacoane și canistre. Flacoanele și canistrele sunt fabricate din polietilenă (HDPE) și sunt etichetate corespunzător. Capacul este fabricat din HDPE (excepție: flaconul de 1 litru: /polipropilenă/ PP). Etichetele sunt confecționate din /poliester/ PE. Prin urmare, este posibilă sortarea pentru reciclare optimă.



Schülke & Mayr GmbH este certificată conform DIN EN ISO 9001, DIN EN ISO 14001 și DIN EN ISO 13485 (nr. de înr. 004567-MP23) și are un sistem de mediu aprobat în conformitate cu Regulamentul de Audit Ecologic (nr. de înr. DE-150-00003).

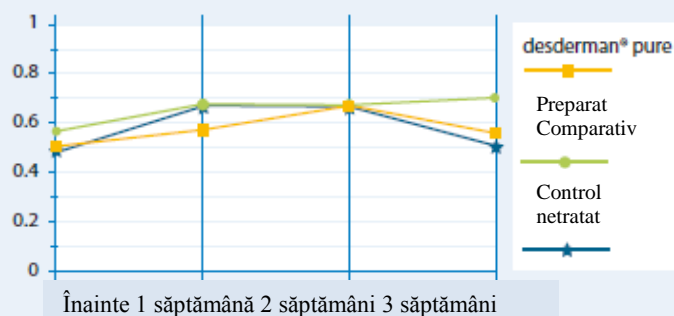
Schülke & Mayr GmbH
22840 Norderstedt,
Germania
Tel. +49 (0) 40-521 00-0
Fax: +49 (0) 40-52100-318
www.schuelke.com
mail@schuelke.com

Schülke & Mayr UK Ltd.
1 Jenkin Road
Marea Britanie, Sheffield S9 1AT
Tel. +44(0)1142-5435-00
Fax: +44(0)1142-5435-01
mail.uk@schuelke.com

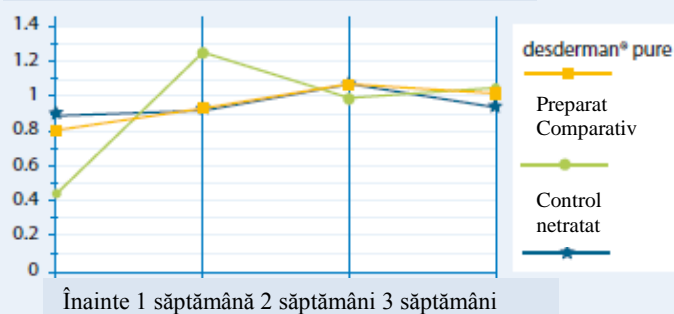
Schülke & Mayr Ges.m.b.H.
Seidengasse 9
1070 Viena, Austria
Tel. +43(0)1-523 25 01-0
Fax +43(0)1-523 25 01-60
office.austria@schuelke.com

Rezultatele în Procedura SELS

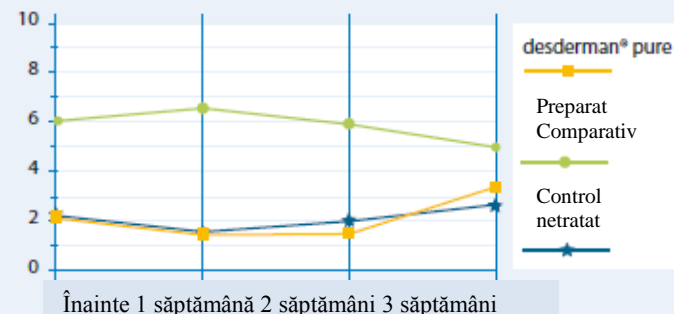
Înăsprirea pielii conform Testului SELS



Descumarea pielii conform Testului SELS



Testul texturii pielii conform SELS



Ridarea pielii conform Testului SELS



schülke -t



thermosept® ED

thermosept® ED in combination with the cleaning agent thermosept® ER or thermosept® alka clean forte offers comprehensive cleaning and aldehyde disinfection for chemo-thermal reprocessing of flexible endoscopes.



Our plus:

- virucidal, sporicidal
- comprehensive microbiological efficacy
- excellent material compatibility
- foam-free

Application methods / Instructions for use

Flexible endoscopes and additional endoscopic equipment can be reprocessed either using aldehyde-free or aldehyde-based products.

thermosept® ED containing aldehyde is intended for the combination of thermosept® ER or thermosept® alka clean forte.

All products are foam-inhibited and enable using cold or warm water in every step of the programme with orderly function. thermosept® ER and thermosept® ED are compatible.

Microbiological efficacy

The microbiological efficacy of thermosept® ED has been tested by experts under machine-specified conditions (time/temperature).

- bactericidal (incl. *M. terrae*) • *Helicobacter pylori* • fungi
- enveloped (incl. HIV, HBV, HCV) • adeno and papova virus
- virucidal • spores* *C. Diff. Ribo 027* • round worm eggs*

* at 60 °C – 1 % – 5 min. + 1 min. heating up, *C. diff.* 1 % – 15 min., 60 °C

Application concentration / Contact time

The product is dosed by means of machine-integrated pumps.

thermosept® ED: from 1 % – 5 minutes – 55 °C

Product data

Ingredients:

100 g thermosept® ED contain: 20 g glutaraldehyde

Further ingredients: corrosion inhibitors, solubilisers, complexing agents.

Chemical-physical data:

Concentrate:

Appearance: colourless liquid
Density (20 °C): 1.04 g/cm³
pH-value: 3.6

1 % stock solution:

Appearance: clear solution
pH-value: approx. 7

Labelling according to EC directives

- C:** Corrosive.
- R20/22:** Harmful by inhalation and if swallowed.
- R34:** Causes burns.
- R42/43:** May cause sensitisation by inhalation and skin contact.
- S23:** Do not breathe vapour.
- S26:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39:** Wear suitable protective clothing, gloves and eye/face protection.
- S45:** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S51:** Only use in well-ventilated areas.

Product liability

thermosept® ED was thoroughly tested for its application and microbiology. It is suitable, among others, for devices of the manufacturers BHT, Hamo, Kleindienst and Olympus e.g. (Innova; SME; WS; ETD series).

Thus, we confirm that within the scope of the German Product Liability Law, we are liable for all damage that has demonstrably been caused by deficiencies of our preparations when used for the above mentioned AER. The liability includes damage to the reprocessed endoscopes as well as to the above mentioned machines. A prerequisite is, among others, that our preparations are orderly applied, that the endoscopes have not been damaged before and that the machines work flawlessly.

Environmental information

schülke produces its products according to advanced, safe and environmentally friendly procedures, economically and in compliance with high quality standards.

Expert opinions

Microbiology

Microbiological testing after installation of the Olympus Endo-Thermo disinfectant ETD with THP 5917 (thermosept® ER) and TPH 5422 (thermosept® ED),

University Prof. J. R. Möse, MD, Graz, Austria, December 6, 1989

Virucidal activity of thermosept® ED against the poliovirus type I strain Mahoney,

Dr J. Steinmann, Bremen, Germany, November 10, 1991

Studies using the schülke products TPH 5917 (thermosept® ER) and TPH 5422 (thermosept® ED) in the ETD machine.

Part I: Microbiological studies,

U. Jürs, AK Barmbek, Hamburg, Germany, January 14, 1991

Studies on the efficacy of thermosept® ED against mycobacteria,

Dr P. Goroncy-Bermes, schülke Research and Development, Norderstedt, Germany, August 10, 1992

Study on sporicidal efficacy of the instrument disinfectant thermosept® ED, *Dr P. Goroncy-Bermes, schülke Research and Development, Norderstedt, Germany, April 22, 1994*

Expert opinion on the testing of disinfectants applied to parasitic dauer stages, *Dr R. Böse, Prof. K. T. Friedhoff, Hannover, Germany, July 5, 1994*

Study on the efficacy against the hepatitis-B-virus (HBV) of the chemical disinfectant thermosept® ED, *G. Schwalbach, MD, Bad Mergentheim, Germany, November 14, 1994*

In-hospital evaluation of BHT INNOVA 2000 Washer/Disinfectant for Processing of Flexible Endoscopes,

Prof. Sattar, Ottawa/Canada, May 1996

Bacteriological study on the endoscopes washer BHT Innova E3 with thermosept® ER/ED,

Manfred P. Dierich, MD, Innsbruck, Austria, February 24, 1998

Hygienic-microbiological test in BHT Innova E3 with thermosept® ER/ED, *Mag. Dr T. Miorini, Graz, Austria, September 1999*

Study on the efficacy of thermosept® ED against poliovirus, *Dr J. Steinmann, Bremen, Germany, June 4, 1999*

Disinfecting efficacy of thermosept® ED against *Helicobacter pylori*, *Prof. W. Solbach, MD, Lübeck, Germany, February 20, 1998*

Efficacy of thermosept® ED against the Bovine Viral Diarrhea Virus (BVDV) in a quantitative suspension test at 50 °C, *Dr J. Steinmann, Bremen, Germany, July 2004*

Efficacy of thermosept® AF against the adeno virus in a quantitative suspension test at 50 °C, *Dr J. Steinmann, Bremen, Germany, August 2004*

Efficacy of thermosept® ED against the papova virus SV 40 in a quantitative suspension test at 50 °C, *Dr J. Steinmann, Bremen, Germany, August 2004*

Efficacy of thermosept® ED against the vaccinia virus in a quantitative suspension test at 50 °C, *Dr J. Steinmann, Bremen, Germany, November 2004*

Efficacy of thermosept® ED against the parvovirus in a quantitative suspension test at 55 °C according to EN 14476:2007-02, *Dr J. Steinmann, Bremen, Germany, February 2009*

Efficacy of thermosept® ED against *Clostridium difficile* (ribotype 027), *Prof. M. Exner, MD, Bonn, Germany, January 12, 2009*

Compatibility of materials

Studies on the compatibility of materials with TPH 5917 (thermosept® ER) and TPH 5422 (thermosept® ED),

M. Mohr, schülke Research and Development, Norderstedt, Germany, December 15, 1989

Studies using the schülke products TPH 5917 (thermosept® ER) and TPH 5422 (thermosept® ED) in the ETD machine,

Part II: Application-technological studies,

H. Menzel, AK Barmbek, Hamburg, Germany, January 14, 1991

Suitability of thermosept® products for the BHT- ERD device, BHT, *H. Biermaier, Friedberg-Derching, Germany, October 27, 1992*

Biodegradability

thermosept® ED: Biodegradability according to OECD test specification 301, *Dr P. Goroncy-Bermes, schülke Research and Development, Norderstedt, Germany, March 28, 1991*



Schülke & Mayr GmbH is certified according to DIN EN ISO 9001, DIN EN ISO 14001 and DIN EN ISO 13485 (Reg.-No. 004567-MP23) and has a validated environmental system in accordance with the Eco Audit Regulation (Reg.-No. DE-150-00003).

Schülke & Mayr GmbH
22840 Norderstedt, Germany
Phone +49 (0) 40 - 521 00 - 0
Fax +49 (0) 40 - 521 00 - 318
www.schuelke.com
mail@schuelke.com

Schülke & Mayr UK Ltd.
1 Jenkin Road
GB-Sheffield S9 1AT
Phone +44 (0) 1142 - 54 35 - 00
Fax +44 (0) 1142 - 54 35 - 01
mail.uk@schuelke.com

Schülke & Mayr Ges.m.b.H
Seidengasse 9
1070 Wien, Austria
Phone +43 (0) 1 - 523 25 01 - 0
Fax +43 (0) 1 - 523 25 01 - 60
office.austria@schuelke.com

schülke -t



thermosept® ED

thermosept® ED, în combinație cu agentul de curățare thermosept® ER sau thermosept® alka clean forte, asigură o curățare completă și o dezinfecție aldehidică pentru reprocesarea chimico-termică a endoscoapelor flexibile.



Avantajul nostru:

- ucide virușii și sporii;
- eficacitate microbiologică completă;
- compatibilitate excelentă cu materialele;
- nu formează spumă

Metode de aplicare / Instrucțiuni de utilizare

Endoscoapele flexibile și alte echipamente endoscopice pot fi reprocesate utilizând fie produși fără aldehide, fie produși pe bază de aldehide.

thermosept® ED, care conține aldehide, este destinat pentru utilizare în combinație cu thermosept® ER sau thermosept® alka clean forte.

Aceste produse nu formează spumă și permit utilizarea apei calde sau reci în fiecare etapă a programului cu funcția normală.

thermosept® ER și thermosept® ED sunt compatibile.

Eficacitatea microbiologică

Eficacitatea microbiologică a produsului thermosept® ED a fost testată de experți în condiții specificate (timp/temperatură) pe echipamente automate.

- bactericid (incl. M. terrae) • Helicobacter pylori • ciuperci
- virus încapsulat (incl. HIV, HBV, HCV) • adenovirus și papovavirus
- virucidal • ucide sporii* C.Diff. Ribo 027 • ouă de viermi rotunzi*

* la 60 °C – 1 % – 5 min. + 1 min. încălzire, C. dif. 1 % – 15 min., 60 °C

Concentrații utilizate / Timpul de contact

Produsul este dozat cu ajutorul pompelor integrate în aparat.

thermosept® ED: de la 1 % – 5 minute – 55 °C

Date privind produsul

Ingrediente:

100 g thermosept® ED conțin: 20 g glutaraldehidă

Alte ingrediente: inhibitori de coroziune, dizolvanți, agenți de complexare.

Date fizico-chimice:

Concentrat:

Aspectul:	lichid incolor
Densitatea (20 °C):	1,04 g/cm ³
Valoarea pH-ului:	3,6

soluție-mamă de 1 %:

Aspectul:	soluție limpede
Valoarea pH-ului:	aproximativ 7

Etichetare conform directivelor CE

- C:** Coroziv.
- R20/22:** Nociv la inhalare și în caz de ingerare.
- R34:** Provoacă arsuri.
- R42/43:** Poate cauza sensibilizare prin inhalare și contactul cu pielea.
- S23:** A nu se inhala vapori.
- S26:** În cazul contactului cu ochii, clățiți imediat cu multă apă și solicitați asistență medicală.
- S36/37/39:** Purtați îmbrăcăminte de protecție adecvată, mănuși și protejați ochii/fața.
- S45:** În caz de accident sau dacă nu vă simțiți bine, solicitați imediat asistență medicală (prezentați eticheta, dacă este posibil).
- S51:** A se utiliza numai în locuri bine ventilate.

thermosept® ED

Răspunderea pentru produse

thermosept® ED a fost testat minuțios pentru utilizarea sa și pentru microbiologie. Este adecvat, printre altele, pentru dispozitive ale producătorilor BHT, Hamo, Kleindienst și Olympus (Innova; SME; WS; ETD).

Astfel, confirmăm că, în temeiul Legii germane privind răspunderea pentru produse, suntem responsabili pentru toate daunele cauzate în mod demonstrabil de deficiențe ale preparatelor noastre utilizate pentru scopul menționat mai sus. Răspunderea include daunele provocate endoscoapelor reprocessate și aparatele menționate mai sus. O precondiție este, printre altele, că preparatele noastre sunt utilizate în mod normal, că endoscoapele nu au fost deteriorate anterior și că aparatele funcționează ireproșabil.

Informații de mediu

Produsele schülke sunt fabricate utilizând procese avansate, sigure și ecologice, în mod economic și cu respectarea unor standarde de calitate înaltă.

Avize din partea experților

Microbiologie

Testare microbiologică după instalarea aparatului de dezinfecție Olympus Endo-Thermo ETD cu THP 5917 (thermosept® ER) și TPH 5422 (thermosept® ED),

Prof. univ. dr. J.R. Mose, Graz, Austria, 6 decembrie 1989

Acțiunea virucidă a thermosept® ED împotriva polivirusului tip I tulpina Mahoney,

Dr. J. Steinmann, Bremen, Germania, 10 noiembrie 1991

Studii privind utilizarea produselor schülke TPH 5917 (thermosept® ER) și TPH 5422 (thermosept® ED) în aparatul ETD. Partea I: Studii de microbiologie,

U. Jürs, AK Barmbek, Hamburg, Germania, 14 ianuarie 1991

Studii privind eficacitatea thermosept®ED împotriva micobacteriilor,

Dr P. Goroncy-Bermes, schülke Research and Development, Norderstedt, Germania, 10 august 1992

Studiu privind eficacitatea sporicidă a dezinfectantului pentru instrumente thermosept®ED,

Dr P. Goroncy-Bermes, schülke Research and Development, Norderstedt, Germania, 22 aprilie 1994

Aviz al experților privind testarea dezinfectanților aplicați în etapele de dezvoltare a paraziților,

Dr R. Böse, Prof. K. T. Friedhoff, Hannover, Germania, 5 iulie 1994

Studiu privind eficacitatea dezinfectantului chimic thermosept® ED împotriva virusului hepatitei B (HBV),

G. Schwalbach, MD, Bad Mergentheim, Germania, 14 noiembrie 1994

Evaluare în spital a aparatului de spălare/dezinfecție BHT INNOVA 2000 pentru procesarea endoscoapelor flexibile,

Prof. Sattar, Ottawa/Canada, mai 1996

Studiu bacteriologic privind aparatul de spălare a endoscoapelor BHT Innova E3 cu thermosept® ER/ED,

Manfred P. Dierich, MD, Innsbruck, Austria, 24 februarie 1998

Test igienico-microbiologic în aparatul BHT Innova E3 cu thermosept® ER/ED,

Mag. Dr T. Miorini, Graz, Austria, septembrie 1999

Studiu privind eficacitatea thermosept®ED împotriva poliovirusului,

Dr. J. Steinmann, Bremen, Germania, 4 iunie 1999

Eficacitatea de dezinfecție a thermosept®ED împotriva *Helicobacter pylori*,

Prof. W. Solbach, MD, Lübeck, Germania, 20 februarie 1998

Eficacitatea thermosept® ED împotriva virusului diareei bovine (BVDV) într-o testare cantitativă a suspensiei la 50 °C,

Dr. J. Steinmann, Bremen, Germania, iulie 2004

Eficacitatea thermosept® ED împotriva adenovirusului într-o testare cantitativă a suspensiei la 50 °C,

Dr. J. Steinmann, Bremen, Germania, august 2004

Eficacitatea thermosept® ED împotriva papovavirusului SV 40 într-o testare cantitativă a suspensiei la 50 °C,

Dr. J. Steinmann, Bremen, Germania, august 2004

Eficacitatea thermosept® ED împotriva virusului variolei într-o testare cantitativă a suspensiei la 50 °C,

Dr. J. Steinmann, Bremen, Germania, noiembrie 2004

Eficacitatea thermosept® ED împotriva parvovirusului într-o testare cantitativă a suspensiei la 55 °C conform EN 14476:2007-02,

Dr. J. Steinmann, Bremen, Germania, februarie 2009

Eficacitatea thermosept® ED împotriva *Clostridium difficile* (ribotip 027),

Prof. M. Exner, MD, Bonn, Germania, 12 ianuarie 2009

Compatibilitatea materialelor

Studii privind compatibilitatea materialelor cu TPH 5917 (thermosept® ER) și TPH 5422 (thermosept® ED).

M. Mohr, schülke Research and Development, Norderstedt, Germania, 15 decembrie 1989

Studii privind utilizarea produselor schülke TPH 5917 (thermosept® ER) și TPH 5422 (thermosept® ED) în aparatul ETD, Partea a II-a: Studii aplicativ-tehnologice,

H. Menzel, AK Barmbek, Hamburg, Germania, 14 ianuarie 1991

Adecvarea produselor thermosept® pentru dispozitivul BHT-ERD, BHT,

H. Biermaier, Friedberg-Derching, Germania, 27 octombrie 1992

Biodegradabilitatea

thermosept® ED: conform specificației de testare OECD 301,

Dr P. Goroncy-Bermes, schülke Research and Development, Norderstedt, Germania, 28 martie 1991

Reprezentant autorizat în Republica Moldova:

„Endo-Chirurgie” SRL

Adresa juridică: mun. Chișinău, str. Drumul Viilor 30/2, ap. 54, MD-2001;

Adresa fizică: mun. Chișinău, str. Meșterul Manole 9, MD-2023;

Telefon(fax) de contact: (022) 667286

e-mail: info@endochirurgie.md

web: www.endochirurgie.md



Schülke & Mayr GmbH este certificată conform DIN EN ISO 9001, DIN EN ISO 14001 și DIN EN ISO 13485 (Reg.-No. 004567-MP23) și are un sistem de mediu validat în conformitate cu Regulamentul

Auditului Ecologic (Reg.-No. DE-150-00003).

Schülke & Mayr GmbH

22840 Norderstedt, Germany

Tel. +49 (0) 40 - 521 00 - 0

Fax+49 (0) 40 - 521 00 - 318

www.schuelke.com

mail@schuelke.com

Schülke & Mayr UK Ltd.

1 Jenkin Road

GB-Sheffield S9 1AT

Tel. +44(0)1142-5435-00

Fax +44(0)1142-5435-01

mail.uk@schuelke.com

Schülke & Mayr Ges.m.b.H

Seidengasse 9

1070 Wien, Austria

Tel. +43(0)1-5232501-0

Fax +43(0)1-232501-60

office.austria@schuelke.com



Neutraliser based on citric acid for the automated reprocessing of medical devices and laboratory accessories

thermosept® NKZ

Our Plus

- free of phosphates and surfactants
- gentle on material
- prevents the building of deposits
- optimises the cleaning results after neutral cleaning
- efficient neutralisation after alkaline cleaning

Application areas

thermosept® NKZ is used for the reprocessing of surgical and microsurgical instruments, stainless steel containers, rigid endoscopes, anaesthetics material, operating theatre shoes and baby bottles or laboratory equipment after alkaline cleaning, to avoid the spread of alkaline residues. Furthermore, it is also suitable for acidic pre-cleaning of stainless steel instruments. thermosept® NKZ can be used in washer/disinfectors and multi-chamber washer/disinfectors.

Instructions for use

Dosage:

following alkaline cleaning: 0.1 - 0.2 % (1 - 2 ml/l)

following neutral cleaning: 0.1 % (1 ml/l)

Use of demineralised water in the final rinse step is recommended in general. Dosing for acidic pre-cleaning of acid resistant materials: 0.2 - 0.5% (2 - 5 ml/l) at 40 °C - 60 °C, contact time approx. 30 min. Thorough rinse with demineralised water is required.

Dosing is performed by machine-integrated dosing pumps. Please note recommendations of machine and instrument manufacturers.



Product data

Composition:
organic acids

Chemical-physical data

Color	colourless
Density	ca. 1,17 g/cm ³ / 20 °C
Flash point	Not applicable
Form	liquid
pH	ca. 2 / 20 °C
Viscosity, dynamic	ca. 4 mPa*s / Method : ISO 3219

Information for order

Item	Delivery form	Item no.
thermosept NKZ 5 kg KA	1/Canister	on request

These products are not available in every country. For more information please contact our local subsidiary or distributor.

Application aids

Application aids	Item no.
Can key for 20 + 25 l	135901
Key for 5/10 lt can (Draak)	135801

Related Products

- thermosept® RKF

Environmental information

schülke manufactures products economically and with advanced, safe and environmentally friendly production processes while at the same time maintaining out high quality standards.

Expert opinion and information

Please visit our website for an overview of all available literature/reports on the product: <http://www.schuelke.com/>.
For individual questions: Customer Sales Service Phone: +49 40 52100-666 E-Mail: info@schuelke.com



Schülke & Mayr GmbH holds a Manufacturer's Authorisation according to sect 13 para 1 German Drug Law and Certificates of GMP Compliance for medicinal products.

schülke Headquarters
Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt, Germany
Phone +49 40 - 52100 - 0
Fax +49 40 - 52100 - 318
www.schuelke.com
info@schuelke.com



Mildly alkaline high performance cleaner
for the automated reprocessing of medical
devices

thermosept® X·tra

Our Plus

- excellent cleaning performance achieved by the synergistic combination of active substances of enzymes and surfactants
- low foaming formulär
- optimized material compatibility, also suitable for anodized aluminium
- high economic efficiency due to low working concentration
- pH of >10 in the cleaning solution - risk reduction in the case of vCJK according to the recommendation of the German RKI (Robert-Koch Institute)
- silicate-free

Application areas

thermosept® X·tra is designed for the automated cleaning of medical devices and accessories e.g. surgical instruments, minimally invasive surgical instruments, including robotic instruments, materials used in anaesthesia, ophthalmological instruments, rigid endoscopes, containers and other instruments commonly used in the Central Sterile Supply Department. Product can be used in all common types of washer/disinfectors (WD) and tunnel/washers. The outstanding cleaning performance is based on the combination of an innovative system of detergents combined with high-performance enzymes. The activity of the special enzyme variant develops initially in the application solution - in this way, powerful performance is achieved directly in the cleaning phase in WD. Even at low doses, thermosept® X·tra removes organic contaminants such as blood, proteins, tissue residues as well as mucus and fatty impurities. The synergistic combination of active ingredients allow excellent compatibility with materials, even with sensitive materials such as anodized aluminum and non-ferrous metal. With a pH-value of >10, a ten-minute cleaning time and an elevated, non-protein-fixing process temperature during the cleaning phase, thermosept® X·tra contributes to risk reduction with regard to vCJK according to the German RKI recommendation. Released for the manual pretreatment and

automated reprocessing of Intuitive Surgical® da Vinci robotic instruments.

Instructions for use

Dosage:

Standard concentration: 0.5 % (5 ml/l)

Depending on the degree of soiling: 0.3 - 1.0 % (3 - 10 ml/l)

Cleaning temperature standard: approx. 55°C (30 - 65 °C),
cleaning time approx. 5 - 10 minutes

Cleaning indicators: All common indicators can be used.

Do not use thermosept® X·tra in combination with other products. The use of purified water is recommended. The neutralisation step required for classical alkaline cleaning agents is not necessary. When preparing ocular instruments, two interim rinsing steps with purified water before thermal disinfection are recommended or use neutraliser thermosept® NKZ. Dosing is performed by machine-integrated dosing pumps. Please note recommendations of machine and instrument manufacturers.



Product data

Composition:

Labelling according to Regulation (EC) No. 648/2004: 5 - 15 % anionic surfactants, < 5 % nonionic surfactants, < 5 % polycarboxylate, enzymes.

Other ingredients: Solubiliser, corrosion inhibitors.

Chemical-physical data

Color	yellow
Density	ca. 1,1 g/cm ³ / 20 °C / 1.013 hPa
Flash point	> 100 °C / Method : DIN 51755 Part 1
Form	liquid
pH	ca. 11 / 20 °C / concentrate
Viscosity, dynamic	ca. 9 mPa*s / Method : ISO 3219

Special advice

Keep container tightly closed. Store at room temperature in the original container. Protect from frost, heat and sunlight. (Storage temperature: 5 - 25 °C).

Information for order

Item	Delivery form	Item no.
thermosept X-tra 200 I FA	1/drum(s)	on request
thermosept X-tra 5 I KA	1/Canister	on request
thermosept X-tra 10 I KA	1/Canister	on request
thermosept Xtra 20 I KA	1/Canister	on request
thermosept X-tra SOKA 5 I KA	1/Canister	on request

These products are not available in every country. For more information please contact our local subsidiary or distributor.

Accessories

Accessories	Item no.
Can key for 5 + 10 l	135810

Environmental information

schülke manufactures products economically and with advanced, safe and environmentally friendly production processes while at the same time maintaining out high quality standards.

Expert opinion and information

Please visit our website for an overview of all available literature/reports on the product: <http://www.schuelke.com/>.

For individual questions: Customer Care Phone: +49 40 52100-666 E-Mail: info@schuelke.com



Schülke & Mayr GmbH holds a Manufacturer's Authorisation according to sect 13 para 1 German Drug Law and Certificates of GMP Compliance for medicinal products.



schülke Headquarters
Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt, Germany
Phone +49 (0) 40 - 52100 - 0
Fax +49 (0) 40 - 52100 - 318
www.schuelke.com
mail@schuelke.com

Schülke & Mayr UK Ltd.
1 Jenkin Road
GB-Sheffield S9 1 AT
Phone +44 (0) 1142 - 5435 - 00
Fax +44 (0) 1142 - 5435 - 01
www.schulke.co.uk
mail.uk@schuelke.com

Schülke & Mayr Ges.m.b.H.
Seidengasse 9
1070 Wien, Austria
Phone +43 (0) 1 - 5232501-0
Fax +43 (0) 1 - 5232501-60
www.schuelke.at
office.austria@schuelke.com



A company of the Air Liquide-Group

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -

desderman® pure *No Change Service!*

Version Revision Date: Date of last issue: 30.05.2016
02.02 23.01.2018 Date of first issue: 07.07.2008

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

1.1 Product identifier

Trade name : desderman® pure

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 : 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

E-mail address of person : Application Department
responsible for the +49 (0)40/ 521 00 8800
SDS/Contact person ApplicationDepartment.SM@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone num- : UK Poisons Emergency number: 0870 600 6266
ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.
Eye irritation, Category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

desderman® pure *No Change Service!*

Version 02.02 Revision Date: 23.01.2018 Date of last issue: 30.05.2016
Date of first issue: 07.07.2008

- Hazard statements : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
- Precautionary statements : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/ container to an approved waste disposal plant.
- Further information : Use biocides safely. Always read the label and product information before use.

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.

Vapours are heavier than air and may spread along floors.

Take precautionary measures against static discharge.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	78,2
Propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	10
Biphenyl-2-ol	90-43-7 201-993-5 604-020-00-6 ---	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0,1

For explanation of abbreviations see section 16.

desderman® pure No Change Service!Version
02.02Revision Date:
23.01.2018Date of last issue: 30.05.2016
Date of first issue: 07.07.2008**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air.
If symptoms persist, 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.
Clean mouth with water and drink afterwards plenty of water.
If swallowed, seek medical advice immediately and show this container or label.

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
Alcohol-resistant foam
Water spray jet
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
Foam

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO₂)

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Vapours may form explosive mixtures with air.

desderman® pure **No Change Service!**Version
02.02Revision Date:
23.01.2018Date of last issue: 30.05.2016
Date of first issue: 07.07.2008

Vapours are heavier than air and may spread along floors.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Ensure adequate ventilation.
Remove all sources of ignition.

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 : Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition - No smoking. Keep away from children.

Advice on protection against fire and explosion : The hot product gives off combustible vapours. Take measures to prevent the build up of electrostatic charge.

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. Keep at temperature not exceeding 25 °C.
Further information on storage conditions : Keep away from direct sunlight. Keep container tightly closed.
Advice on common storage : Do not store together with oxidising agents.

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	Control parameters	Basis
------------	---------	------------------	--------------------	-------

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



desderman® pure **No Change Service!**

Version
02.02

Revision Date:
23.01.2018

Date of last issue: 30.05.2016
Date of first issue: 07.07.2008

		of exposure)		
Ethanol	64-17-5	Permissible exposure limit	500 ppm 960 mg/m ³	TRGS 900
		Ceiling Limit Value	1.000 ppm 1.920 mg/m ³	TRGS 900
		Permissible exposure limit	1.000 ppm 1.900 mg/m ³	OSHA
Propan-2-ol	67-63-0	Permissible exposure limit	200 ppm 500 mg/m ³	TRGS 900
		Ceiling Limit Value	400 ppm 1.000 mg/m ³	TRGS 900
		Permissible exposure limit	400 ppm 980 mg/m ³	OSHA

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Ethanol	Workers	Inhalation	Acute effects, Local effects	1900 mg/m ³
	Workers	Skin contact	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m ³
Propan-2-ol	Workers	Skin contact	Long-term exposure, Systemic effects	888 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	500 mg/m ³
Biphenyl-2-ol	Workers	Inhalation	Long-term systemic effects	19,25 mg/m ³
	Workers	Dermal	Long-term systemic effects	21,84 mg/kg

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

Substance name	Environmental Compartment	Value
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
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
Biphenyl-2-ol	Fresh water	0,0009 mg/l
	Marine water	0,00009 mg/l
	Intermittent use/release	0,027 mg/l
	Sewage treatment plant	0,56 mg/l
	Fresh water sediment	0,1284 mg/kg
	Marine sediment	0,01284 mg/kg
	Soil	2,5 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -t

desderman® pure **No Change Service!**

Version
02.02

Revision Date:
23.01.2018

Date of last issue: 30.05.2016
Date of first issue: 07.07.2008

8.2 Exposure controls

Personal protective equipment

Eye protection : If splashes are likely to occur, wear:
Safety glasses with side-shields conforming to EN166

Protective measures : Avoid contact with eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless
Odour	: alcohol-like
Odour Threshold	: not determined
pH	: Not applicable
Melting point/freezing point	: < -5 °C
Decomposition temperature	No data available
Boiling point/boiling range	: ca. 80 °C
Flash point	: 16 °C Method: DIN 51755 Part 1
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: 15 %(V) Raw material
Lower explosion limit	: 3,1 %(V) Raw material
Vapour pressure	: ca. 50 hPa (20 °C)
Vapour density	: No data available
Relative density	: ca. 0,83 g/cm ³ (20 °C)
Solubility(ies) Water solubility	: in all proportions (20 °C)
Partition coefficient: n- octanol/water	: Not applicable
Auto-ignition temperature	: > 360 °C Raw material

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -t

desderman® pure **No Change Service!**

Version
02.02

Revision Date:
23.01.2018

Date of last issue: 30.05.2016
Date of first issue: 07.07.2008

Flow time : < 15 s at 20 °C
Method: DIN 53211

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

Hazardous reactions : Vapours may form explosive mixture with air.
Reaction with oxidising agents
Exothermic reaction with strong acids.

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.

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: 40 mg/l
Acute dermal toxicity : Acute toxicity estimate: > 15.000 mg/kg

Skin corrosion/irritation

Product:

No skin irritation

Serious eye damage/eye irritation

Product:

desderman® pure No Change Service!Version
02.02Revision Date:
23.01.2018Date of last issue: 30.05.2016
Date of first issue: 07.07.2008

Causes serious eye irritation., Calculation method

Respiratory or skin sensitisation**Components:****Ethanol:**

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

Propan-2-ol:

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

Biphenyl-2-ol:

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

Germ cell mutagenicity**Components:****Ethanol:**

Genotoxicity in vitro : OECD Test Guideline 471, Not mutagenic in Ames Test

Genotoxicity in vivo : Non mutagenic

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Propan-2-ol:

Genotoxicity in vitro : Ames test, Mutagenicity (Escherichia coli - reverse mutation assay), Non mutagenic

Genotoxicity in vivo : Mouse, Mutagenicity (micronucleus test), Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Biphenyl-2-ol:

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Carcinogenicity**Components:****Ethanol:**

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

Propan-2-ol:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

Biphenyl-2-ol:

Rat, (male), Oral, 2 Years, No observed adverse effect level: 200

Carcinogenicity - Assessment : No data available

Reproductive toxicity**Components:****Ethanol:**

Effects on foetal development : 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.

Propan-2-ol:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -†

desderman® pure **No Change Service!**

Version
02.02

Revision Date:
23.01.2018

Date of last issue: 30.05.2016
Date of first issue: 07.07.2008

Biphenyl-2-ol:

Effects on fertility : Rat, male and female, Oral, General Toxicity - Parent: No observed adverse effect level: 460 mg/kg body weight, General Toxicity F1: No observed adverse effect level: 460 mg/kg body weight

Reproductive toxicity - Assessment : No data available

STOT - single exposure

Components:

Ethanol:

No data available

Propan-2-ol:

|| May cause drowsiness or dizziness.

Biphenyl-2-ol:

Respiratory system, May cause respiratory irritation.

STOT - repeated exposure

Components:

Ethanol:

No data available

Propan-2-ol:

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

Biphenyl-2-ol:

No data available

Repeated dose toxicity

Components:

Ethanol:

Rat, NOAEL: 1.730 mg/kg, LOAEL: 3.160 mg/kg, Oral90 d

Biphenyl-2-ol:

Rat, male, NOAEL: <= 1.000 mg/kg, Skin contact21 d

Rat, male, LOAEL: 200 mg/kg, Oral2 year

Aspiration toxicity

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to microorganisms : EC50 : 4.000 mg/l
Method: OECD 209

Components:

Ethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8.140 mg/l
Exposure time: 48 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 5.000 mg/l

desderman® pure No Change Service!

Version 02.02 Revision Date: 23.01.2018 Date of last issue: 30.05.2016
 Date of first issue: 07.07.2008

aquatic invertebrates Exposure time: 48 h
 Toxicity to algae : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l
 Exposure time: 72 h

Propan-2-ol:

Toxicity to fish : LC50 (Leuciscus idus): > 100 mg/l
 Exposure time: 48 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): > 100 mg/l
 Exposure time: 48 h
 Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
 Exposure time: 72 h
 Test Type: static test

Biphenyl-2-ol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 4,5 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 2,7 mg/l
 Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0,98 mg/l
 Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0,036 mg/l
 Exposure time: 21 d
 Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,009 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability**Product:**

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

Components:**Ethanol:**

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -t

desderman® pure **No Change Service!**

Version Revision Date: Date of last issue: 30.05.2016
02.02 23.01.2018 Date of first issue: 07.07.2008

Biodegradability : Result: Readily biodegradable.

Propan-2-ol:

Biodegradability : Result: Readily biodegradable.

Biphenyl-2-ol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5

12.3 Bioaccumulative potential

Components:

Ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-
octanol/water : log Pow: -0,14
Method: Calculated value

Propan-2-ol:

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

Partition coefficient: n-
octanol/water : log Pow: 0,05 (20 °C)
Method: OECD Test Guideline 107

Biphenyl-2-ol:

Bioaccumulation : Bioconcentration factor (BCF): 22
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-
octanol/water : log Pow: 3,18

12.4 Mobility in soil

Components:

Ethanol:

Mobility : Remarks: No data available

Propan-2-ol:

Mobility : Remarks: Mobile in soils

Biphenyl-2-ol:

Mobility : Remarks: No data available

desderman® pure **No Change Service!**Version
02.02Revision Date:
23.01.2018Date of last issue: 30.05.2016
Date of first issue: 07.07.2008

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 : none

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 : EWC 070604

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**

IMDG : UN 1987

IATA (Cargo) : UN 1987

14.2 UN proper shipping name

IMDG : ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)

IATA (Cargo) : ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)

14.3 Transport hazard class(es)

IMDG : 3

IATA (Cargo) : 3

14.4 Packing group

IMDG

Packing group : II

Labels : 3

EmS Code : F-E, S-D

desderman® pure *No Change Service!*Version
02.02Revision Date:
23.01.2018Date of last issue: 30.05.2016
Date of first issue: 07.07.2008**SECTION 16: Other information****Full text of H-Statements**

H225	: Highly flammable liquid and vapour.
H315	: Causes skin irritation.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure

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; 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -†

desderman® pure **No Change Service!**

Version
02.02

Revision Date:
23.01.2018

Date of last issue: 30.05.2016
Date of first issue: 07.07.2008

Further information

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

Flam. Liq. 2, H225 : On basis of test data.
Eye Irrit. 2, H319 : 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.

Z_Z / EN

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure

Deservire neschimbată!

Versiune 01.06

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

1. Identificarea substanței/preparatului și a companiei/întreprinderii

1.1. Informație despre produs

Denumirea comercială : desderman pure

1.2. Folosirile relevante identificate ale substanței sau amestecului și folosirile ce se recomandă a fi evitate

Folosirea substanței/
amestecului : Dezinfectanți și produse biocide generale.

Restricții recomandate la utilizare : Destinat numai utilizatorilor profesionali.

1.3. Detalii privind furnizorul fișei tehnice de securitate

Producător/Furnizor : Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt
Germania
Telefon: +4940521000
Telefax: +494052100318
mail@schuelke.com
www.schuelke.com

Persoană de contact : Departamentul de aplicare Indicații privind aplicarea
+49 (0)40/521 00 544 (Schülke UK +44 114 254 3500)
pab@schuelke.com

1.4. Numărul de telefon pentru urgențe

Numărul de telefon pentru urgențe : Numărul de în caz de otrăviri în Marea Britanie: 0870 600 6266

Numărul de telefon pentru urgențe : +49 (0)40 / 52 100-0

2. Identificarea pericolelor

2.1. Clasificarea substanței sau amestecului

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

Inflamabil R11: Foarte inflamabil.

2.2. Elementele etichetei

Etichetarea conform Directivelor CE (1999/45/EC)

Pictogramele pericolelor :



Foarte inflamabil

Fraze R : R11 Foarte inflamabil.

Fraze S : S7/9 A se păstra recipientul închis ermetic și într-

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure

Versiune 01.06

Deservire neschimbată!

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

	un loc bine ventilat
S16	A se păstra departe de orice flacără sau sursă de scânteii – Fumatul interzis.
S35	A se elimina reziduurile produsului și ambalajul după ce s-au luat toate măsurile de precauție.

În UE, acest produs cade sub incidența Directivei privind produsele biocide 98/8/CE. Produsul este clasificat și etichetat în conformitate cu Directiva CE sau cu legea națională corespunzătoare.

Informație suplimentară : Folosiți preparatul biocid în siguranță. Citiți întotdeauna eticheta și informația despre produs înainte de folosire.

2.3. Alte pericole

Vaporii sunt mai grei decât arul și se pot împrăștia de-a lungul podelelor.
A se lua măsurile de precauție contra descărcărilor statice.

3. Compoziția/informații despre ingrediente**3.2. Amestecuri**

Natura chimică : Soluție compusă din substanțele următoare cu aditivi inofensivi.

Componente periculoase

Denumire chimică	Indice – Număr Nr. CAS Nr. EC Numărul de înregistrare	Clasificarea (67/548/EEC)	Clasificarea (REGULAMENTUL (EC) Nr. 1272/2008)	Concentrația [%]
Etanol	603-002-00-5 64-17-5 200-578-6 01- 211947610- 43-XXXX	F; R11	Lichid inflamabil 2; H225	78,2 %
Propan-2-ol	603-003-00-0 67-63-0 200-661-7 01- 211947558- 25-XXXX	F; R11 Xi; R36 R67	Lichid inflamabil 2; H225 Iritant pentru ochi 2; H319 STOT SE 3; H336	10 %
Bifenil-2-ol	604-020-00-6 90-43-7 201-993-5	Xi; R36/37/38 N; R50	Iritant pentru ochi 2; H319 Iritant pentru piele 2; H315 STOT SE 3; H335 Periculos pentru mediul acvatic 1; H400	0,1 %

Textul complet al frazelor R menționate în secțiunea dată se conține în Secțiunea 16.

Textul complet al Declarațiilor H menționate în secțiunea dată se conține în Secțiunea 16.

4. Măsuri de prim ajutor**4.1. Descrierea măsurilor de prim ajutor**

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure**Deservire neschimbată!**

Versiune 02.02

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

Indicații generale	: Scoateți imediat toată îmbrăcămintea contaminată.
În caz de inhalare	: Ieșiți la aer curat. Dacă simptomele persistă, adresați-vă la medic.
În caz de contact cu ochii	: Clătiți bine cu multă apă, inclusiv sub pleoape. Dacă iritația persistă, adresați-vă la medic.
În caz de înghițire	: NU induceți voma. Curățiți gura cu apă și beți multă apă după aceea. În caz de înghițire este necesar de adresat imediat la medic și de a-i arăta flaconul sau eticheta.

4.2. Simptomele și efectele cele mai importante, atât acute, cât și întârziate

Simptome	: Tratament simptomatic.
----------	--------------------------

4.3. Indicații privind atenția medicală imediată și tratamentul special necesar

Tratament	: Pentru recomandări specializate, medicii ar trebui să se adreseze la Serviciul informații privind substanțele otrăvitoare.
-----------	------------------------------------------------------------------------------------------------------------------------------

5. Măsuri antiincendiare**5.1. Mijloace de stingere**

Mijloace de stingere recomandate	: Pulbere uscată Spumă rezistentă la alcool Jet-spray de apă Bioxid de carbon (CO ₂)
----------------------------------	-----------------------------------------------------------------------------------------------------------

Mijloace de stingere nerecomandate	: Jet puternic de apă
------------------------------------	-----------------------

5.2. Pericole specifice condiționate de substanță sau de amestec

Pericole specifice în timpul stingerii	: Vaporii sunt mai grei decât aerul și se pot împrăști de-a lungul podelelor. Ase răci flacoanele închise expuse la foc cu spray de apă.
----------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------

5.3. Recomandare pentru pompieri

Echipament special de protecție pentru pompieri	: În caz de incendiu, purtați respirator.
Riscuri specifice din partea substanței sau a produsului, produselor de ardere sau gazelor emenate	: Vaporii pot forma amestecuri explozive cu aerul.

6. Măsuri împotriva pierderilor accidentale**6.1. Măsuri de precauție personale, echipament de protecție și proceduri în caz de urgență**

Măsuri de precauție personale	: Asigurați o bună ventilație. Eliminați toate sursele de aprindere.
-------------------------------	-------------------------------------------------------------------------

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure gel**Deservire neschimbată!**

Versiune 01.06

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

6.2. Măsuri de precauții pentru mediu

Măsuri de precauții pentru mediu : A se evita pătrunderea sub pământ.

6.3. Metode și materiale de localizare și curățareMetode de curățare : A se șterge cu un material absorbant (de exemplu stofă, lână).
A se absorbi cu material absorbant inert (de ex., nisip, silicagel, liant pentru acizi, liant universal, rumeguș)**6.4. Referințe la alte secțiuni**

A se vedea capitolul 8 + 13

7. Mânuirea și păstrarea**7.1. Măsuri de precauții pentru mânărire sigură**

Indicații de siguranță la mânărire : A nu se pulveriza deasupra focului deschis sau pe materiale incandescente - A se ține departe de sursele de foc. – Fumatul este interzis. A nu se lăsa la îndemâna copiilor.

Indicații de protecție contra incendiilor și exploziilor : Produsul fierbinte emană vapori combustibili.
A se lua măsuri pentru prevenirea creșterii sarcinii electrostatice.**7.2. Condiții de păstrare, inclusiv incompatibilitățile**Cerințe referitoare la zonele și containerele de păstrare : A se păstra la temperatura camerei în containerul original.
A se păstra la temperaturi nu mai mari de 25 °C.Informații suplimentare privind condițiile de păstrare : A se feri de razele solare directe.
A se ține containerul bine închis.Indicații privind păstrarea în depozite comune : A nu se păstra împreună cu alimentele și băuturile.
A nu se păstra împreună cu agenți oxidanți.**7.3. Folosiri finale specifice**

nu sunt

8. Controlul expunerii/protecție personală**8.1. Parametrii de control**

Componente	Nr. CAS	Valoarea	Parametrii de control	Baza
Etanol	64-17-5	Limita de expunere admisibilă	500 ppm 960 mg/m ³	TRGS 900
Etanol	64-17-5	Valoarea limită superioară	1 000 ppm 1 920 mg/m ³	TRGS 900
Etanol	64-17-5	Limita de expunere admisibilă	1 000 ppm 1 900 mg/m ³	OSHA
Propan-2-ol	67-63-0	Limita de expunere admisibilă	200 ppm 500 mg/m ³	TRGS 900

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure**Deservire neschimbată!**

Versiune 01.06

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

Propan-2-ol	67-63-0	Valoarea limită superioară	400 ppm 1 000 mg/m ³	TRGS 900
Propan-2-ol	67-63-0	Limita de expunere admisibilă	400 ppm 980 mg/m ³	OSHA

DNEL

Propan-2-ol

: Folosirea finală: Muncitori
 Căile de expunere: Contactul cu pielea
 Efectele potențiale asupra sănătății: Efecte cronice
 Valoarea: 888 mg/m³

: Folosirea finală: Muncitori
 Căile de expunere: Inhalarea
 Efectele potențiale asupra sănătății: Efecte cronice
 Valoarea: 500 mg/m³

PNEC

Propan-2-ol

: Apă proaspătă
 Valoarea: 140,9 mg/l

Apă marină
 Valoarea: 140,9 mg/l

Sediment de apă proaspătă
 Valoarea: 552 mg/kg

Sediment de apă proaspătă
 Valoarea: 552 mg/kg

Sol
 Valoarea: 28 mg/kg

8.2. Măsuri de control la expunere**Echipament de protecție personală**

Protecție pentru ochi : Dacă se pot forma stropi, a se purta:
 Ochelari de protecție

Măsuri igienice : A nu se ține împreună cu alimentele și băuturile.

Măsuri de protecție : A se evita contactul cu ochii.

Măsuri de control al expunerii mediului

Recomandare generală : A se evita pătrunderea sub pământ

9. Proprietățile fizice și chimice**9.1. Informații privind proprietățile fizice și chimice de bază**

Aspectul : lichid

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure**Deservire neschimbată!**

Versiune 01.06

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

Culoarea	: incolor
Mirosul	: specific pentru alcool
Temperatura de aprindere	: 16 °C, DIN 51755, Partea 1
Temperatura de ardere	: Etanol > 360 °C Propan-2-ol 425 °C
Limita inferioară de expunere	: Etanol 3,1 % (V) Propan-2-ol 2 % (V)
Limita superioară de expunere	: Etanol 15 % (V) Propan-2-ol 12 % (V)
Inflamabilitate	: Menține arderea
Proprietăți explozive	: Nu este exploziv
Proprietăți oxidante	: nu sunt date
Temperatura de autoaprindere	: nu sunt date
pH	: inaplicabil
Temperatura de topire/temperatura de înghețare	: < -5 °C
Temperatura de descompunere	: nu sunt date
Temperatura inițială de fierbere	: circa 80 °C
Presiunea vaporilor	: circa 50 hPa la 20 °C
Densitatea	: circa 0,83 g/cm ³ la 20 °C
Solubilitatea în apă	: la 20 °C, în toate proporțiile
Coeficientul de separate: n-octanol/apă	: inaplicabil
Vâscozitatea, dinamică	: <15 s, 20 °C, DIN 53211
Densitatea relativă a vaporilor	: nu sunt date
Rata de evaporare	: nu sunt date

9.2. Alte informații

Nu sunt cunoscute.

10. Stabilitate și reactivitate**10.1. Reactivitate**

Nu sunt cunoscute reacții potențial periculoase în condiții normale sau la folosirea normală.

10.2. Stabilitatea chimică

Produsul este stabil din punct de vedere chimic.

10.3. Posibilitatea reacțiilor periculoase

Vaporii pot forma amestec exploziv cu aerul.

Intră în reacție cu agenții oxidanți.

Intră în reacție exotermică cu acizii puternici.

10.4. Condiții ce urmează a fi evitate

Căldura, flăcările și scântelele.

10.5. Materiale incompatibile

Acizi puternici și agenți oxidanți.

10.6. Produse de descompunere periculoase

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure**Deservire neschimbată!**

Versiune 01.06

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

Produse de descompunere periculoase : Nimic previzibil în mod normal.

11. Informații toxicologice

Toxicitate orală acută : Toxicitatea desderman pure corespunde aproximativ cu cea a etanolului (toxicitate orală LD 50 > 2000 mg/kg la șobolani), 2-bifenilol, care este prezent în proporție de 0,1 % în desderman pure, are toxicitate orală de LD 50 la 2700 mg/kg la șobolani.

Toxicitatea acută la inhalare

Etanol : LC50: 11200 mg/l, 1 oră, șoareci
 Propan-2-ol : LC50: > 20 mg/l, 4 ore, șobolani
 Bifenil-2-ol : LC0: > 36 mg/l, șobolani

Toxicitate acută pentru piele

Etanol : LD50: 20000 mg/kg, iepuri
 Propan-2-ol : LD50: > 2000 mg/kg, iepuri
 Bifenil-2-ol : LD50: > 2000 mg/kg, șobolani

Iritația pielii : Nu irită pielea

Iritația ochilor

Etanol : iepuri, Rezultat: iritație ușoară a ochilor
 Propan-2-ol : Rezultat: Iritant pentru ochi
 Bifenil-2-ol : iepuri, Rezultat: iritație a ochilor

Sensibilizare

Etanol : Testul de Maximizare, cobai, Rezultat: Nu cauzează sensibilizare la animalele de laborator
 Propan-2-ol : Testul Buehler, cobai, Rezultat: Nu cauzează sensibilizare la animalele de laborator
 Bifenil-2-ol : Testul de Maximizare, cobai, Rezultat: Nu cauzează sensibilizare la animalele de laborator

Mutagenitatea celulelor de reproducere

Etanol : Rezultat: Nu este mutagen conform Testului Ames. Îndrumarul de Testare OECD 471

Genotoxicitatea in vivo

Etanol : Mutagenicitatea (testul citogenetic al măduvei oaselor la mamifere in vivo, analiză cromozomială), Rezultat: nu este mutagen

Mutagenicitatea

Etanol : Teste pe culturile de celule bacteriene sau de mamifere nu au

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure**Deservire neschimbată!**

Versiune 01.06

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

Propan-2-ol

indicat efecte mutagene

Bifenil-2-ol

: Testarea pe animale nu a indicat efecte mutagene

: Nu este mutagen conform Testului Ames.

Carcinogenitatea

Etanol

: Nu a indicat efecte carcinogene în experimentele pe animale.

Propan-2-ol

: Testarea pe animale nu a indicat efecte carcinogene.

Bifenil-2-ol

: nu sunt date

Toxicitatea reproductivă

Etanol

: La testarea pe animale, riscul de tulburări ale fertilității a fost indicat numai după administrarea unor doze foarte mari de această substanță

Propan-2-ol

: La testarea pe animale nu au fost indicate efecte asupra fertilității.

Bifenil-2-ol

: nu sunt date

Teratogenitatea

Etanol

: șobolani, Orală, NOAEL: 2 000 mg/kg

Teratogenitatea

Etanol

: Experimentele pe animale au indicat efecte mutagene și teratogene

Propan-2-ol

: Ingerarea unor cantități excesive de către animalele însărcinate a rezultat în toxicitate maternală și fetală

Bifenil-2-ol

: Testările pe animale nu au indicat efecte asupra dezvoltarea fătului.

Toxicitatea la doze repetate

Etanol

: șobolani, Orală, NOAEL: 2 400 mg/kg

Informație suplimentară

: Produsul nu a fost testat. Clasificarea a fost făcută conform procedurii de calcul a Directivei privind Preparatele.

12. Informații ecologice**12.1. Toxicitatea**

Toxicitatea pentru pești

Etanol

: LC50: 8140 mg/l, 48 ore, Leuciscus idus

Propan-2-ol

: LC50: > 100 mg/l, 48 ore, Leuciscus idus, test static, Materie primă

Bifenil-2-ol

: LC50: 5,99 mg/l, 96 ore, Pimephales promelas

Toxicitatea pentru dafnii și alte nevertebrate acvatice.

Etanol

: LC50: 5000 mg/l, 48 ore, Daphnia magna

Propan-2-ol

: LC50: > 100 mg/l, 48 ore, Daphnia magna, test static, Materie primă

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure**Deservire neschimbată!**

Versiune 01.06

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

Bifenil-2-ol : EC50: 1,5 mg/l, 24 ore, Daphnia magna

Toxicitatea pentru alge

Etanol : IC50: > 100 mg/l, 72 ore, Scenedesmus quadricauda (alge verde)

Propan-2-ol : EC50: >100 mg/l, 72 ore, Desmodesmus subspicatus (alge verde), test static, Materie primă

Bifenil-2-ol : EC50: 0,98 mg/l, 72 ore, Desmodesmus subspicatus (alge verde)

Toxicitatea pentru bacterii : EC50: 4000 mg/l, OECD 209

12.2. Persistența și degradabilitatea

Biodegradabilitate : Rezultat: Rapid biodegradabil, OECD 301D / EEC 84/449 C6

12.3. Potențialul de bioacumulare

Bioacumulare

Etanol : Bioacumularea este puțin probabilă.

|| Propan-2-ol : Nu este probabilă acumularea (coeficientul de partiție octanol/apă <= 4)

Bifenil-2-ol : Factorul de bioconcentrare (BCF): 21, 07, Bioacumularea este puțin probabilă.

Coeficientul de partiție: n-octanol/apă : inaplicabil

12.4. Mobilitatea în sol

Mobilitatea

|| Etanol : nu sunt date

Propan-2-ol : mobil în soluri

Bifenil-2-ol : nu sunt date

12.5. Rezultatele evaluărilor PBT și vPvB

Evaluare : Amestecul dat nu conține substanțe considerate persistente, capabile de bioacumulare sau toxice (PBT).

12.6. Alte efecte adverse

Informație ecologică adițională : nu este

13. Considerații privind eliminarea**13.1. Metode de tratare a deșeurilor**

Produsul : A se elimina produsul conform Codului EWC (European Waste Code) nr.

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure**Deservire neschimbată!**

Versiune 01.06

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

Ambalajul contaminat : Ambalajul gol se va transmite la întreprinderea de reciclare.

Codul de deșeu pentru produsul neutilizat : EWC 070604

Codul de deșeu pentru produsul neutilizat (Grup) : Materialul neutilizat de HZVA din grăsimi, lubrifianți, săpunuri, detergente, dezinfectanți și produse de protecție personală

14. Informație privind transportul

ADR : Numărul UN 1987

**Denumirea exactă de expediție**

ALCOOLI, N.O.S. (Propan-2-ol, Etanol)

Clasa de pericol în transport 3

Grupa de ambalare II

Pericole pentru mediu -

Codul de clasificare F1

Etichete ADR/RID 3

Etichete ICAO 33

IMDG : Numărul UN 1987

**Denumirea exactă de expediție**

ALCOOLI, N.O.S. (Propan-2-ol, Etanol)

Clasa de pericol în transport 3

Grupa de ambalare II

Pericole pentru mediu -

EmS F-E, S-D

IATA : Numărul UN 1987

**Denumirea exactă de expediție**

ALCOOLI, N.O.S. (Propan-2-ol, Etanol)

Clasa de pericol în transport 3

Grupa de ambalare II

Pericole pentru mediu -

Precauții speciale pentru utilizator

Codul de restricție în tunel ADR: D/E

Transportul în vrac conform Anexei II la MARPOL 73/78 și Codul IBC

Exclus

15. Informație privind reglementările aplicabile**15.1. Regulamentele/legislația privind siguranța, sănătatea și mediul, specifice pentru substanță sau amestec**

FIȘA TEHNICĂ DE SECURITATE

în conformitate cu Regulamentul (CE) nr. 1907/2006

desderman pure**Deservire neschimbată!**

Versiune 01.06

Data revizuirii 07.12.2012

Data imprimării 08.03.2013

Legislația privind controlul pericolelor de accidente majore cu implicarea substanțelor periculoase : Produsul aparține la cel puțin una din categoriile de la 1 până la 11, menționate în Anexa 1 la Directiva 1996/82/EC referitor la controlul pericolelor de accidente majore

Conținutul de compuși organici volatili (COV) : 88,2 %
Directiva 1999/13/EC privind limitarea emisiilor de compuși organici volatili

15.2. Evaluarea siguranței chimice

Exclusă

16. Alte informații

Textul complet al frazelor R indicate în secțiunile 2 și 3

R11	Foarte inflamabil
R36	Iritant pentru ochi.
R 37/37/38	Iritant pentru ochi, căile respiratorii și piele.
R50	Foarte toxic pentru organismele acvatice.
R67	Inhalarea vaporilor poate provoca somnolență și amețeală

Textul complet al declarațiilor H indicate în secțiunile 2 și 3

H225	Lichid și vapori foarte inflamabili
H315	Cauzează iritația pielii.
H319	Cauzează iritații grave ale ochilor.
H335	Poate cauza iritația căilor respiratorii.
H336	Poate cauza somnolență sau amețeală.
H400	Foarte toxic pentru organismele acvatice.

Informație suplimentară

|| Modificări față de ediția precedentă!!!

Informația indicată în prezenta Fișă Tehnică de Securitate este corectă și se bazează pe cunoștințele, informația și datele de care dispunem la data publicării ei. Informația prezentată este destinată numai ca îndrumar pentru mănuire, folosirea, procesarea, păstrarea, transportul, eliminarea și eliberarea sigură, și nu trebuie să fie considerată o garanție a specificației calității. Informația se referă numai la materialul concret desemnat și poate să nu fie valabilă pentru materialul dat folosit în combinație cu alte materiale sau în alte procese, dacă nu este specificat altceva în text.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -†

THERMOSEPT ED

No Change Service!

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

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

1.1 Product identifier

Trade name : THERMOSEPT ED

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

Use of the Sub- : Disinfectants
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)

Harmful R20/22: Harmful by inhalation and if swallowed.
Corrosive R34: Causes burns.
Harmful R42/43: May cause sensitization by inhalation and
skin contact.

2.2 Label elements

Labelling according to EC Directives (1999/45/EC)

Hazard pictograms :



Corrosive

THERMOSEPT ED**No Change Service!**

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

	43-XXXX			
--	---------	--	--	--

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 all contaminated clothing immediately.
- If inhaled : Move the victim to fresh air and keep him calm.
No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
- 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.
Rinse mouth with water.
Give small amounts of water to drink.
Obtain medical attention.

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 : No information available.

THERMOSEPT ED**No Change Service!**

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

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 : Fire may cause evolution of: Carbon monoxide, Carbon dioxide (CO₂)

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water.

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

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Avoid exceeding of the given occupational exposure limits (see section 8).
Use only with adequate ventilation/personal protection.

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 direct sunlight.
Keep away from heat.
Keep container tightly closed.

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

7.3 Specific end use(s)

none

THERMOSEPT ED**No Change Service!**

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

8. Exposure controls/personal protection**8.1 Control parameters**

Components	CAS-No.	Value	Control parameters	Basis
Glutaral	111-30-8	TLV	0,05 ppm	ACGIH
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**

- Respiratory protection : Not required; except in case of aerosol formation.
- 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 : Tightly fitting safety goggles
- Hygiene measures : Keep away from food and drink.
- Protective measures : Avoid contact with skin and eyes.
Do not breathe vapour.

Environmental exposure controls

- General advice : Do not flush into surface water.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : colourless
- Odour : stinging
- Flash point : 63 °C, DIN 51755 Part 1
- Ignition temperature : Ethanol: > 360 °C
- Lower explosion limit : Ethanol: 3,1 %(V)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

THERMOSEPT ED

No Change Service!

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

Upper explosion limit	: Ethanol: 15 %(V)
Flammability	: Does not sustain combustion.
Explosive properties	: no data available
Oxidizing properties	: no data available
Auto-ignition temperature	: not determined
pH	: ca. 3,6, 20 °C, concentrate
Melting point/freezing point	: < -5 °C
Decomposition temperature	: no data available
Boiling point/boiling range	: ca. 90 °C
Vapour pressure	: ca. 35 hPa, 20 °C
Density	: ca. 1,04 g/cm ³ , 20 °C
Water solubility	: 20 °C, in all proportions
Partition coefficient: n-octanol/water	: not applicable
Viscosity, dynamic	: ca. 3,2 mPa*s, 20 °C, DIN 53019
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

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Strong bases
Strong acids and oxidizing agents
Amines
Ammonia

10.6 Hazardous decomposition products

Decomposition products : None reasonably foreseeable.

11. Toxicological information

11.1 Information on toxicological effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

THERMOSEPT ED

No Change Service!

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

Acute oral toxicity

Glutaral : LD50: 158 mg/kg, rat
Ethanol : LD50: 8300 mg/kg, mouse

Acute inhalation toxicity

Glutaral : LC50: 0,48 mg/l, 4 h, rat, Aerosol, OECD Test Guideline 403
Ethanol : LC50: 11200 mg/l, 1 h, mouse

Acute dermal toxicity

Glutaral : LD50: > 2000 mg/kg, rabbit
Ethanol : LD50: 20000 mg/kg, rabbit

Skin irritation : Classification: Causes burns.

Eye irritation : Classification: Causes burns.

Sensitisation : Practical experience:, May cause sensitization of susceptible persons.

Germ cell mutagenicity

Glutaral : Result: Conflicting results have been seen in different studies. Did not show mutagenic effects in animal experiments.
Ethanol : 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

Mutagenicity

Glutaral : Did not show mutagenic effects in animal experiments.
Ethanol : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Glutaral : Animal testing did not show any carcinogenic effects.
Ethanol : Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Glutaral : Animal testing did not show any effects on fertility.
Ethanol : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.

Teratogenicity

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

THERMOSEPT ED**No Change Service!**

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

Teratogenicity

- Glutaral : Did not show teratogenic effects in animal experiments.
Ethanol : Animal experiments showed mutagenic and teratogenic effects.

Repeated dose toxicity

- Glutaral : No adverse effect has been observed in chronic toxicity tests.
Ethanol : rat, Oral, NOAEL: 2.400 mg/kg

Further information

- : No data is available on the product itself. The classification was made according to the calculation procedure of the Preparations Directive.

12. Ecological information**12.1 Toxicity**

Toxicity to fish

- Glutaral : LC50: 9,4 mg/l, 96 h, *Lepomis macrochirus* (Bluegill sunfish)
Ethanol : LC50: 8.140 mg/l, 48 h, *Leuciscus idus* (Golden orfe)

Toxicity to daphnia and other aquatic invertebrates

- Glutaral : EC50: 5,75 mg/l, 48 h, *Daphnia magna* (Water flea)
Ethanol : EC50: > 5.000 mg/l, 48 h, *Daphnia magna* (Water flea)

Toxicity to algae

- Glutaral : EC50: 0,6 mg/l, 72 h, *Desmodesmus subspicatus* (green algae), OECD Test Guideline 201
Ethanol : IC50: > 100 mg/l, 72 h, *Scenedesmus quadricauda* (Green algae)

- Toxicity to bacteria : EC50: 217 mg/l, OECD 209

Toxicity to fish (Chronic toxicity)

- Glutaral : NOEC: 1,6 mg/l, 97 d, *Oncorhynchus mykiss* (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

- Glutaral : NOEC: 2,5 mg/l, 21 d, *Daphnia magna* (Water flea)

12.2 Persistence and degradability

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

THERMOSEPT ED

No Change Service!

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

Chemical Oxygen Demand (COD) : 5.200 mg/l, Test substance: 1% solution

12.3 Bioaccumulative potential

Bioaccumulation

Glutaral : Bioaccumulation is unlikely.

Ethanol : Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : not applicable

12.4 Mobility in soil

Mobility

Glutaral : Mobile in soils

Ethanol : no data available

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Additional ecological information : none

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 1903



Proper shipping name
DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Glutaral)

Transport hazard class 8

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

THERMOSEPT ED

No Change Service!

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

IMDG : Packaging group III
Environmental hazards -
Classification Code C9
ADR/RID-Labels 8
ICAO-Labels 80
UN number 1903



Proper shipping name

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Glutaral)

IATA : Transport hazard class 8
Packaging group III
Environmental hazards -
EmS F-A, S-B
UN number 1903



Proper shipping name

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Glutaral)

Transport hazard class 8
Packaging group III
Environmental hazards -

Special precautions for user

ADR Tunnel restriction code: E

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

Volatile organic compounds (VOC) content : 5 %
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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

THERMOSEPT ED

No Change Service!

Version 02.04

Revision Date 29.10.2012

Print Date 04.12.2013

R11	Highly flammable.
R20/22	Harmful by inhalation and if swallowed.
R23/25	Toxic by inhalation and if swallowed.
R34	Causes burns.
R42/43	May cause sensitization by inhalation and skin contact.
R50	Very toxic to aquatic organisms.

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

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.

thermosept® NKZ *No Change Service!*Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007

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

Trade name : thermosept® NKZ

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Decalcification agentRecommended restrictions
on use : 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.comSupplier : 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.comE-mail address of person
responsible for the
SDS/Contact person : Application Department
+49 (0)40/ 521 00 666
AD@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)**1.4 Emergency telephone number**Emergency telephone num-
ber : UK Poisons Emergency number: 0870 600 6266

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Corrosive to metals, Category 1 H290: May be corrosive to metals.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -t

thermosept® NKZ **No Change Service!**

Version
03.06

Revision Date:
14.08.2020

Date of last issue: 25.01.2020
Date of first issue: 12.10.2007

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H290 May be corrosive to metals.
H319 Causes serious eye irritation.

Precautionary statements : **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.

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 hazards to be specially mentioned.

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)
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate	5949-29-1 201-069-1 --- 01-2119457026-42-XXXX	Eye Irrit. 2; H319	>= 50 - < 70

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.

thermosept® NKZ **No Change Service!**Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007

- If inhaled : If breathed in, move person into fresh air.
- 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 eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.
Give small amounts of water to drink.
Consult a physician if necessary.

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 : Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide

5.3 Advice for firefighters

- Special protective equipment for firefighters : 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 : Use personal protective equipment.

6.2 Environmental precautions

- Environmental precautions : Avoid subsoil penetration.
-

thermosept® NKZ *No Change Service!*Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007**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 : Never mix concentrates directly.

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

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 : Keep away from heat. Keep container tightly closed. Recommended storage temperature: 5 - 25°C

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**

Contains no substances with occupational exposure limit values.

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

Substance name	Environmental Compartment	Value
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate	Fresh water	0.44 mg/l
	Marine water	0.044 mg/l
	Fresh water sediment	7.52 mg/kg
	Marine sediment	0.752 mg/kg
	Soil	29.2 mg/kg

8.2 Exposure controls**Personal protective equipment**

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

thermosept® NKZ *No Change Service!*Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007

Hand protection 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.
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	:	colourless
Odour	:	nearly odourless
Odour Threshold	:	not determined
pH	:	2 (20 °C) Concentration: 100 %
Melting point/freezing point	:	ca. 0 °C
Decomposition temperature	:	Not applicable
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	ca. 25 hPa (20 °C)
Vapour density	:	No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -

thermosept® NKZ **No Change Service!**

Version
03.06

Revision Date:
14.08.2020

Date of last issue: 25.01.2020
Date of first issue: 12.10.2007

Relative density	:	ca. 1.17 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	ca. 4 mPa*s Method: ISO 3219
Explosive properties	:	No data available
Oxidizing properties	:	Not applicable

9.2 Other information

Metal corrosion rate	:	> 6.25 mm/a Corrosive to metals Aluminium and Mild steel
----------------------	---	-------------------------------------------------------------

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 : Metals

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:

thermosept® NKZ **No Change Service!**Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007

Acute oral toxicity	:	LD50 (Mouse): 5,400 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg
Acute toxicity (other routes of administration)	:	LD50 intravenous (Rat): 725 mg/kg

Skin corrosion/irritation**Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

Species	:	Rabbit
Result	:	Mild skin irritation
Remarks	:	Based on available data, the classification criteria are not met.

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

Remarks : Causes serious eye irritation.

Components:**1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

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

Respiratory or skin sensitisation**Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.

Germ cell mutagenicity**Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

Genotoxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 0 - 5 mg/ plate Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative
Genotoxicity in vivo	:	Species: Rat Application Route: Oral

thermosept® NKZ *No Change Service!*Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007

Method: OECD Test Guideline 475

Result: negative

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity**Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity**Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 2,500 mg/kg body weightReproductive toxicity - Assessment : No toxicity to reproduction
Did not show mutagenic or teratogenic effects in animal experiments.**STOT - single exposure****Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

Remarks : No data available

STOT - repeated exposure**Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

Remarks : No data available

Repeated dose toxicity**Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**Species : Rat
NOAEL : 4,000 mg/kg
LOAEL : 8,000 mg/kg
Application Route : Oral
Exposure time : 10 d

thermosept® NKZ **No Change Service!**Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007**Aspiration toxicity**

No data available

Further information**Product:**

Remarks : No data is available on the product itself.

SECTION 12: Ecological information**12.1 Toxicity****Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna): 85 - 120 mg/l Exposure time: 72 h
Toxicity to algae/aquatic plants	: NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l Exposure time: 8 Days Test Type: static test
Toxicity to microorganisms	: (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h

12.2 Persistence and degradability**Product:**Biodegradability : Result: Readily biodegradable.
Method: OECD 301D / EEC 84/449 C6**Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**Biodegradability : Result: Readily biodegradable.
Biodegradation: 97 %
Method: OECD Test Guideline 301B**12.3 Bioaccumulative potential****Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

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

thermosept® NKZ **No Change Service!**Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007**12.4 Mobility in soil****Components:****1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate:**

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**

ADR : UN 3265

IMDG : UN 3265

IATA : UN 3265

14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (citric acid)

IMDG : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (citric acid)

IATA : Corrosive liquid, acidic, organic, n.o.s. (citric acid)

thermosept® NKZ *No Change Service!*Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007**14.3 Transport hazard class(es)**

ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADR
Packing group : III
Classification Code : C3
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG
Packing group : III
Labels : 8
EmS Code : F-A, S-B

IATA (Cargo)
Packing instruction (cargo aircraft) : 856
Packing instruction (LQ) : Y841
Packing group : III
Labels : Corrosive

IATA (Passenger)
Packing instruction (passenger aircraft) : 852
Packing instruction (LQ) : Y841
Packing group : III
Labels : Corrosive

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.

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, : Conditions of restriction for the following entries should be considered:

thermosept® NKZ **No Change Service!**Version
03.06Revision Date:
14.08.2020Date of last issue: 25.01.2020
Date of first issue: 12.10.2007

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; 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:**

Met. Corr. 1	H290
Eye Irrit. 2	H319

Classification procedure:

Based on product data or assessment
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.

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

SECȚIUNEA 1: Identificarea substanței/amestecului și a societății/întreprinderii**1.1 Element de identificare a produsului**

Denumirea comercială : thermosept® ED

1.2 Utilizări relevante identificate ale substanței sau amestecului și utilizări contraindicate

Utilizarea substanței/amestecului : dezinfectanți

Restricții recomandate în timpul utilizării : Numai pentru utilizatori profesioniști.

1.3 Detalii privind furnizorul fișei cu date de securitate

Producător/Furnizor : Schülke & Mayr GmbH
 Robert-Koch-Str. 2
 22851 Norderstedt
 Germany
 Telefon: +4940521000
 Fax: +494052100318
 mail@schuelke.com
 www.schuelke.com

Persoană de contact : Application Department HI
 +49 (0)40/ 521 00 544
 ADHI@schuelke.com

1.4 Număr de telefon care poate fi apelat în caz de urgență

Număr de telefon care poate fi apelat în caz de urgență : Institutul Național de Sănătate Publică, București,
 str. Dr. Leonte, nr.1-3, sector 5
 +40 21 318 36 06 apelabil între orele 8.00-15.00

Număr de telefon care poate fi apelat în caz de urgență : +49 (0)40 / 52 100 –0

SECȚIUNEA 2: Identificarea pericolelor**2.1 Clasificarea substanței sau a amestecului****Clasificare (REGULAMENTUL (CE) NR. 1272/2008)**

Toxicitate acută, Categoria 4

H302: Nociv în caz de înghițire.

Toxicitate acută, Categoria 4

H332: Nociv în caz de inhalare.

Corodarea pielii, Categoria 1B

H314: Provoacă arsuri grave ale pielii și lezarea ochilor.

Sensibilizarea pielii, Categoria 1

H317: Poate provoca o reacție alergică a pielii.

Sensibilizare respiratorie, Categoria 1

H334: Poate provoca simptome de alergii sau astm sau dificultăți de respirație în caz de inhalare.

Toxicitate asupra unui organ țintă specific - o singură expunere, Categoria 3

H335: Poate provoca iritarea căilor respiratorii.

Clasificare (67/548/CEE, 1999/45/CE)

Nociv

R20/22: Nociv prin inhalare și prin înghițire.

Coroziv

R34: Provoacă arsuri.

Nociv

R42/43: Poate provoca sensibilizare prin inhalare și

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

În contact cu pielea.

2.2 Elemente pentru etichetă**Etichetare (REGULAMENTUL (CE) NR. 1272/2008)**

Pictograme de pericol :



Cuvânt de avertizare : Pericol

Fraze de pericol : H302 + H332 Nociv în caz de înghițire sau inhalare
 H314 Provoacă arsuri grave ale pielii și lezarea ochilor.
 H317 Poate provoca o reacție alergică a pielii.
 H334 Poate provoca simptome de alergii sau astm sau dificultăți de respirație în caz de inhalare.
 H335 Poate provoca iritarea căilor respiratorii.

Fraze de precauție : P261 Evitați să inspirați vaporii.
 P271 A se utiliza numai în aer liber sau în spații bine ventilate.
 P280 Purtați mănuși de protecție/ echipament de protecție a ochilor/ echipament de protecție a feței.
 P301+P330+P331 ÎN CAZ DE ÎNGHIȚIRE: clătiți gura. NU provocați vomă.
 P303+P361+P353 ÎN CAZ DE CONTACT CU PIELEA (sau părul): scoateți imediat toată îmbrăcămintea contaminată. Clătiți pielea cu apă/ faceți duș.
 P304+P340 ÎN CAZ DE INHALARE: transportați victima la aer liber și mențineți-o în stare de repaus, într-o poziție confortabilă pentru respirație.
 P305+P351+P338+P310 ÎN CAZ DE CONTACT CU OCHII: clătiți cu atenție cu apă timp de mai multe minute. Scoateți lentilele de contact, dacă este cazul și dacă acest lucru se poate face cu ușurință. Continuați să clătiți. Sunați imediat la un CENTRU DE INFORMARE TOXICOLOGICĂ sau un medic.

Componente potențial periculoase ce trebuie să fie specificate pe etichetă:

111-30-8

Glutaral

2.3 Alte pericole

Acest amestec nu conține nicio substanță considerată ca fiind persistentă, bioacumulatoare sau toxică (PBT).

Nu sunt cunoscute riscuri speciale

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

SECȚIUNEA 3: Compoziție/informații privind componenții**3.2 Amestecuri**

Natură chimică : Soluția substanțelor următoare cu aditivi inofensivi.

Componențe potențial periculoase

Denumire chimică	Index-Număr Nr. CAS Nr.CE Număr de înregistrare	Clasificare (67/548/CEE)	Clasificare (REGULAMENTUL (CE) NR. 1272/2008)	Concentrație (%)
Glutaral	605-022-00-X 111-30-8 203-856-5 01- 2119455549- 26-XXXX	T; R23/25 C; R34 Xn; R42/43 N; R50	Met. Corr. 1; H290 Acute Tox. 3; H301 Acute Tox. 3; H331 Skin Corr. 1B; H314 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	20 %
Etanol	603-002-00-5 64-17-5 200-578-6 01- 2119457610- 43-XXXX	F; R11	Flam. Liq. 2; H225 Eye Irrit. 2; H319	5 - 15 %

Pentru explicații referitoare la abrevieri se va vedea secțiunea 16.

SECȚIUNEA 4: Măsuri de prim ajutor**4.1 Descrierea măsurilor de prim ajutor**

- Indicații generale : Se vor scoate imediat toate hainele contaminate.
- Dacă se inhalează : Se va transporta victima la aer proaspăt și se va menține în stare de repaus. Nu se va face respirație artificială gură-la-gură sau gură-la-nas. Se vor folosi aparate/ instrumente speciale. Dacă simptomele persistă se va chema un medic.
- În caz de contact cu pielea : Se va spăla imediat cu multă apă timp de cel puțin 15 minute. Dacă simptomele persistă se va chema un medic.
- În caz de contact cu ochii : În caz de contact cu ochii se vor scoate lentilele de contact și se va clăti imediat cu multă apă, inclusiv sub pleoape, cel puțin 15 minute. Se va chema un medic.
- Dacă este ingerat : NU se va induce stare de vomă. Se va clăti gura cu apă. Se va da să bea mici cantități de apă. Se va chema un medic.

4.2 Cele mai importante simptome și efecte, atât acute, cât și întârziate

- Simptome : Se va trata simptomatologic.

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

4.3 Indicații privind orice fel de asistență medicală imediată și tratamentele speciale necesare

Tratament : Pentru sfaturi de specialitate medicii trebuie să se adreseze Serviciului de informații referitoare la otrăvuri.

SECȚIUNEA 5: Măsurile de combatere a incendiilor**5.1 Mijloace de stingere a incendiilor**

Mijloace de stingere corespunzătoare : Pulbere uscată, Spumă, Jet de apă, Bioxid de carbon (CO₂)

Mijloace de stingere necorespunzătoare : Jet de apă puternic

5.2 Pericole speciale cauzate de substanța sau amestecul în cauză

Riscuri specifice în timpul luptei împotriva incendiilor : Nu există informații disponibile.

Risc specific corespunzător substanței sau produsului însuși, produselor acestuia de ardere sau gazelor degajate : În caz de incendiu se poate degaja: Monoxid de carbon, Bioxid de carbon (CO₂)

5.3 Recomandări destinate pompierilor

echipamentelor speciale de protecție pentru pompieri : În cazul unui incendiu, se va purta un aparat respirator autonom.

SECȚIUNEA 6: Măsurile de luat în caz de dispersie accidentală**6.1 Precauții personale, echipament de protecție și proceduri de urgență**

Măsurile de precauție pentru protecția personală : Se va asigura ventilație adecvată. Se va folosi echipament de protecție individual.

6.2 Precauții pentru mediul înconjurător

Precauții pentru mediul înconjurător : Nu se va deversa în apele de suprafață.

6.3 Metode și material pentru izolarea incendiilor și pentru curățenie

Metodele de curățare : Se va șterge cu un material absorbant (spre exemplu stofă, lână).
Se va absorbi cu un material absorbant inert (spre exemplu nisip, silicagel, liant pentru acizi, liant universal, rumeguș).

6.4 Trimiteri către alte secțiuni

Se va consulta Secțiunea 8 + 13

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

SECȚIUNEA 7: Manipularea și depozitarea**7.1 Precauții pentru manipularea în condiții de securitate**

- Sfaturi de manipulare în condiții de securitate : Se va evita depășirea limitelor de expunere profesională (a se vedea capitolul 8). Se va folosi numai cu o ventilație adecvată/protecție personală adecvată.
- Măsuri de protecție împotriva incendiului și a exploziei : Nu sunt necesare măsuri speciale de luptă împotriva incendiilor.
- Măsuri de igienă : Se vor scoate imediat toate hainele contaminate.

7.2 Condiții de depozitare în condiții de securitate, inclusiv eventuale incompatibilități

- Cerințe pentru spațiile de depozitare și containere : Se va păstra la temperatura camerei, în recipienți de original.
- Informații suplimentare asupra condițiilor de depozitare : Se va ține ferit de lumina directă a soarelui. Se va păstra departe de căldură. A se păstra ambalajul închis ermetic.
- Măsuri de protecție în cazul depozitării în locuri comune : Se va păstra separat față de mâncare și băutură.

7.3 Utilizare finală specifică (utilizări finale specifice)

- Utilizare (utilizări) specifică (specifice) : nici unul

SECȚIUNEA 8: Controale ale expunerii/protecția personală**8.1 Parametri de control****Concentrație maximă de lucru**

Componente	Nr. CAS	Tipul valorii (Formă de expunere)	Parametri de control	Bază
Glutaral	111-30-8	TLV	0,05 ppm	ACGIH
Etanol	64-17-5	Valoare limită acceptabilă	500 ppm 960 mg/m ³	TRGS 900
Etanol	64-17-5	Valoare limită de expunere ce nu trebuie depășită în timpul oricărei perioade de lucru	1.000 ppm 1.920 mg/m ³	TRGS 900
Etanol	64-17-5	Valoare limită acceptabilă	1.000 ppm 1.900 mg/m ³	OSHA

Nivel la care nu apar efecte (DNEL) în conformitate cu Reglementările UE No. 1907/2006:

- Glutaral : Utilizare finale: Lucrători, Căi de expunere: Inhalare, Efecte potențiale asupra sănătății: Efecte locale pe termen lung, Valoare: 0,25 mg/m³
- Etanol : Utilizare finale: Lucrători, Căi de expunere: Inhalare, Efecte potențiale asupra sănătății: Efecte acute, Efecte locale, Valoare: 1900 mg/m³
Utilizare finale: Lucrători, Căi de expunere: Contact cu pielea, Efecte potențiale asupra sănătății: Efecte cronice, Valoare: 343 mg/m³
Utilizare finale: Lucrători, Căi de expunere: Inhalare, Efecte potențiale asupra sănătății: Efecte cronice, Valoare: 950 mg/m³

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

Concentrație predictibilă fără efect (PNEC) în conformitate cu Reglementările UE No. 1907/2006:

	Etanol	: Apă proaspătă, Valoare: 0,0025 mg/l
		: Apă de mare, Valoare: 0,00025 mg/l
		: Sediment de apă curgătoare, Valoare: 5,27 mg/kg
		: Sediment marin, Valoare: 0,527 mg/kg
		: Sol, Valoare: 0,03 mg/kg
		: Efecte pe stația de tratare a apa uzată, Valoare: 0,8 mg/l
		: Procesare intermitentă/eliberare, Valoare: 0,006 mg/l
		: Apă proaspătă, Valoare: 0,96 mg/l
		: Apă de mare, Valoare: 0,79 mg/l
		: Sediment de apă curgătoare, Valoare: 3,6 mg/kg
	: Sol, Valoare: 0,63 mg/kg	

8.2 Controale ale expunerii**Echipamentul individual de protecție**

	Protecția ochilor	: Ochelari de protecție prevăzuți cu apărători laterale, în conformitate cu EN 166
	Protecția mâinilor	: Protecție contra împușcărilor: Mănuși de cauciuc nitril de unică folosință, spre exemplu Dermatril (Grosimea stratului: 0,11 mm) fabricate de către KCL sau alte mănuși ce asigură aceeași protecție. Contact prelungit: Mănuși de cauciuc nitril, spre exemplu. Camatril (>480 min., Grosimea stratului: 0,40 mm) sau mănuși de cauciuc butil, spre exemplu. Butoject (>480 min., Grosimea stratului: 0,70 mm) fabricat de către KCL sau alte mănuși ce asigură aceeași protecție.
	Protecția respirației	: NU este necesar, cu excepția cazului în care se formează aerosoli.
	Măsuri de protecție	: Evitați contactul cu pielea și ochii. A nu inspira vaporii.

Controlul expunerii mediului

Indicații generale	: Nu se va deversa în apele de suprafață.
--------------------	-------------------------------------------

SECȚIUNEA 9: Proprietățile fizice și chimice**9.1 Informații privind proprietățile fizice și chimice de bază**

Aspect	: lichid	
Culoare	: incolor	
Miros	: înțepător(oare)	
	Pragul de acceptare a mirosului	: nedeterminat
	Punctul de aprindere	: 63 °C, DIN 51755 Part 1
	Temperatură de aprindere	: Etanol: > 360 °C
	Temperatura de autoaprindere	: nedeterminat
	Limită inferioară de explozie	: Etanol: 3,1 %(V)
	Limită superioară de explozie	: Etanol: 15 %(V)
	Inflamabilitate	: Nu menține arderea.
	Proprietăți explozive	: Nu există date

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

Proprietăți oxidante	: Nu există date
pH	: circa 3,6, 20 °C, concentrat
Punctul de topire/punctul de înghețare	: < -5 °C
Temperatura de descompunere	Nu există date
Temperatură de fierbere/interval de temperatură de fierbere	: circa 90 °C,
Presiunea de vapori	: circa 35 hPa, 20 °C,
Densitatea de vapori relativă	: Nu există date
Densitate	: circa 1,04 g/cm ³ , 20 °C
Solubilitate în apă:	: în toate proporțiile, 20 °C
Coeficientul de partiție: n-octanol/apă	: Nu se aplică
Vâscozitate dinamică	: circa 3,2 mPa*s, 20 °C, DIN 53019,
Viteza de evaporare	: Nu există date

9.2 Alte informații

Nu există date

SECȚIUNEA 10: Stabilitate și reactivitate**10.1 Reactivitate**

Nu se conoaște nici o reacție periculoasă în condiții normale de folosire.

10.2 Stabilitate chimică

Produsul este stabil chimic.

10.3 Posibilitatea de reacții periculoase

Nimic previzibil în mod normal.

10.4 Condiții de evitat

Se va feri de îngheț, căldură și lumina soarelui.

10.5 Materiale incompatibile

Baze tari, Acizi tari și agenți oxidanți, Amine, Amoniac

10.6 Produși de descompunere periculoși

Nimic previzibil în mod normal.

SECȚIUNEA 11: Informații toxicologice**11.1 Informații privind efectele toxicologice****Toxicitate acută****Produs**

Toxicitate acută orală	: Estimarea toxicității acute: 497 mg/kg, Estimarea toxicității orale acute în conformitate cu metoda de calcul prezentată în GHS (Sistemul de armonizare global, Partea 3, capitolul 3.1)., Nociv în caz de înghițire.
Toxicitate acută prin inhalare	: Estimarea toxicității acute: 2,5 mg/l, în conformitate cu metoda

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

	Toxicitate acută dermică	:	de calcul prezentată în GHS (Sistemul de armonizare global, Partea 3, capitolul 3.1)., Nociv în caz de inhalare. : Estimarea toxicității acute: > 5000 mg/kg, în conformitate cu metoda de calcul prezentată în GHS (Sistemul de armonizare global, Partea 3, capitolul 3.1).
--	--------------------------	---	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Corodarea/iritarea pielii**Produx**

|| Provoacă arsuri grave ale pielii și lezarea ochilor., Metoda de calculare

Lezarea gravă/iritarea ochilor**Produx**

|| Provoacă arsuri grave ale pielii și lezarea ochilor., Metoda de calculare

Sensibilizarea căilor respiratorii sau a pielii**Produx**

	Poate provoca o reacție alergică a pielii. Poate provoca simptome de alergii sau astm sau dificultăți de respirație în caz de inhalare.
--	--------------------------------------------------------------------------------------------------------------------------------------------

Mutagenitatea celulelor germinative**Componente:****Glutaral:**

Genotoxicitate in vitro	:	Rezultate contradictorii au fost obținute în diferite studii.
Mutagenitatea celulelor germinative- Evaluare	:	Nu a prezentat efecte mutagene în decursul experimentelor pe animale.

Etanol:

Genotoxicitate in vitro	:	Nu este mutagen conform testului Ames. Ghid de testare OECD 471
Genotoxicitate in vivo	:	nemutagen
Mutagenitatea celulelor germinative- Evaluare	:	Testele pe culturi bacteriene sau de celule de mamifere nu au evidențiat efecte mutagene.

Cancerogenitatea**Componente:****Glutaral:**

Cancerogenitatea - Evaluare	:	Testele pe animale nu au arătat nici un fel de efecte cancerigene.
-----------------------------	---	--------------------------------------------------------------------

Etanol:

Cancerogenitatea - Evaluare	:	Nu a prezentat efecte cancerigene în decursul experimentelor pe animale.
-----------------------------	---	--------------------------------------------------------------------------

Toxicitatea pentru reproducere**Componente:****Glutaral:**

Toxicitatea pentru reproducere - Evaluare	:	Testele pe animale nu au arătat nici un fel de efecte referitoare la fertilitate.
-------------------------------------------	---	-----------------------------------------------------------------------------------

Toxicitate teratogenă - Evaluare	:	Nu a prezentat efecte teratogene în decursul experimentelor pe animale.
----------------------------------	---	-------------------------------------------------------------------------

Etanol:

Efecte asupra dezvoltării fătului	:	Șobolan, Oral(ă), NOAEL: 2.000 mg/kg
-----------------------------------	---	--------------------------------------

Toxicitatea pentru reproducere	:	În cadrul testelor pe animale a apărut un risc de alterare a
--------------------------------	---	--------------------------------------------------------------

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

re - Evaluare fertilității numai după administrarea de doze foarte mari din această substanță.

Toxicitate teratogenă - Evaluare : Experimentele pe animale au evidențiat efecte mutagene și teratogene.

STOT (toxicitate asupra organelor țintă specifice) - expunere unică**Produs**

|| Poate provoca iritarea căilor respiratorii.

STOT (toxicitate asupra organelor țintă specifice) - expunere repetată**Componente:****Glutaral:**

|| Nu există date

Toxicitate la doză repetată**Componente:****Glutaral:**

Nu au fost observate efecte adverse la testele de toxicitate critică.

Etanol:

Șobolan: NOAEL: 2.400 mg/kg, Oral(ă)

Toxicitate referitoare la aspirație

Nu există date

Informații suplimentare**Produs**

Nu există informații disponibile pentru produsul în suși.

SECȚIUNEA 12: Informații ecologice**12.1 Toxicitate****Produs**

Toxicitate pentru bacterii : EC50: 217 mg/l, OECD 209

12.2 Persistență și degradabilitate**Produs**

Biodegradare : Ușor biodegradabil. OCDE 301D / CEE 84/449 C6

Necesități în oxigen de natură chimică (NOC) : 5.200 mg/l, soluție 1%

Componente:**Glutaral:**

Biodegradare : Ușor biodegradabil. 90 - 100 o/o, 28 d, Îndrumar de test OECD 301 A

Etanol:

Biodegradare : Ușor biodegradabil.

12.3 Potențial de bioacumulare**Produs**

Coeficientul de partiție: n-octanol/apă : Nu se aplică

Componente:

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

Glutaral:

Biocumulare : Nu se bioacumulează.

Coeficientul de partiție: n-octanol/apă : log Pow: circa -0,36 (23 °C) , pH: 7, Directiva 92/69/CEE, A.8

Etanol:

Biocumulare : Bioacumularea este improbabilă.

Coeficientul de partiție: n-octanol/apă : log Pow: -0,14, calculat

12.4 Mobilitate în sol**Componente:****Glutaral:**

Mobilitate : Mobil în diverse tipuri de sol

Etanol:

Mobilitate : Nu există date

12.5 Rezultatele evaluării PBT și vPvB**Produs**

Acest amestec nu conține nicio substanță considerată ca fiind persistentă, bioacumulatoare sau toxică (PBT).

12.6 Alte efecte adverse**Produs**

Informații ecologice adiționale : nici unul

SECȚIUNEA 13: Considerații privind eliminarea**13.1 Metode de tratare a deșeurilor**

Produs : Se va elimina produsul conform cu numărul european de eliminare a deșeurilor (Codul European al Deșeurilor).

Ambalaje contaminate : Se vor da ambalajele goale unei întreprinderi de reciclare.

Codul de deșeu pentru produsul nefolositor : CED 070601

Codul de deșeu pentru produsul nefolositor(Grup) : Deșeuri rezultate în urma producerii, preparării, vânzării și utilizării de grăsimi, lubrifianți, săpunuri, detergenți, desinfecțanți și produși pentru protecție personală.

SECȚIUNEA 14: Informații referitoare la transport**14.1 Numărul ONU**

ADR : UN 1903

IMDG : UN 1903

IATA : UN 1903

14.2 Denumirea corectă ONU pentru expediție

ADR : DEZINFECTANT, LICHID, COROZIV, N.O.S. (Glutaral)

thermosept® ED *No Change Service!*

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

IMDG : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Glutaral)

IATA : Disinfectant, liquid, corrosive, n.o.s.
(Glutaral)

14.3 Clasa (clasele) de pericol pentru transport

ADR : 8

IMDG : 8

IATA : 8

14.4 Grupul de ambalare**ADR**

Grupul de ambalare : III
Cod de clasificare : C9
Nr.de identificare a pericolu-
lui : 80
Etichete : 8
Cod de restricționare în tune-
luri : E

IMDG

Grupul de ambalare : III
Etichete : 8
EmS Cod : F-A, S-B

IATA

Instrucțiuni de ambalare : 856
(avioane cargo)
Grupul de ambalare : III
Etichete : 8

14.5 Pericole pentru mediul înconjurător**ADR**

Periculos pentru mediul în-
conjurător : nu

IMDG

Poluanții marini : nu

14.6 Precauții speciale pentru utilizatori

Pentru protecția individuală a se vedea paragraful 8.

14.7 Transport în vrac, în conformitate cu anexa II la MARPOL 73/78 și Codul IBC

Nu se aplică pentru produse precum cel furnizat.

SECȚIUNEA 15: Informații de reglementare**15.1 Regulamente/legislație în domeniul securității, sănătății și al mediului specifice (specifică) pentru substanța sau amestecul în cauză**

Legislație referitoare la con-
trolul riscurilor de accident
majore implicând substanțe : Nu se aplică Directiva 96/82/CE

thermosept® ED No Change Service!

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

periculoase

Compuși organici volatili : 5 %, Directiva 2010/75/CE referitoare la limitarea emisiilor de compuși organici volatili

15.2 Evaluarea securității chimice

Exceptat

SECȚIUNEA 16: Alte informații**Text complet al frazelor R**

R11 : Foarte inflamabil.
 R23/25 : Toxic prin inhalare și prin înghițire.
 R34 : Provoacă arsuri.
 R42/43 : Poate provoca sensibilizare prin inhalare și în contact cu pielea.
 R50 : Foarte toxic pentru organismele acvatice.

Text complet al declarațiilor H

H225 : Lichid și vapori foarte inflamabili.
 H290 : Poate fi corosiv pentru metale.
 H301 : Toxic în caz de înghițire.
 H314 : Provoacă arsuri grave ale pielii și lezarea ochilor.
 H317 : Poate provoca o reacție alergică a pielii.
 H319 : Provoacă o iritare gravă a ochilor.
 H331 : Toxic în caz de inhalare.
 H334 : Poate provoca simptome de alergii sau astm sau dificultăți de respirație în caz de inhalare.
 H335 : Poate provoca iritarea căilor respiratorii.
 H400 : Foarte toxic pentru mediul acvatic.
 H411 : Toxic pentru mediul acvatic cu efecte pe termen lung.

Text complet al altor abrevieri

Acute Tox.	Toxicitate acută
Aquatic Acute	Toxicitatea acută pentru mediul acvatic
Aquatic Chronic	Toxicitatea cronică pentru mediul acvatic
Eye Irrit.	Iritarea ochilor
Flam. Liq.	Lichide inflamabile
Met. Corr.	Corosive pentru metale
Resp. Sens.	Sensibilizare respiratorie
Skin Corr.	Corodarea pielii
Skin Sens.	Sensibilizarea pielii
STOT SE	Toxicitate asupra unui organ țintă specific - o singură expunere

Informații suplimentare

Modificările față de ediția precedentă sunt marcate pe margine.

Informațiile conținute în această fișă tehnică de securitate au fost stabilite pe baza cunoștințelor, informațiilor și presupunerilor noastre la data publicării acestui document.

FIȘA CU DATE DE SECURITATE

În conformitate cu Reglementările UE No. 1907/2006



thermosept® ED **No Change Service!**

Versiune 03.00 Revizia (data): 10.03.2015

Data ultimei lansări 29.10.2012

Data primei lansări 23.01.2008

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012

Alkylpolyethylen-glycol-polybutylen-glycolether	120313-48-6 Polymer --- ---	Aquatic Acute 1; H400; M = 1 Aquatic Chronic 3; H412	< 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	< 1
Alcohols, C13-15-branched and linear, butoxylated ethoxylated	111905-53-4 Polymer --- ---	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	< 1

Non-hazardous ingredients

Chemical name	Index-Number CAS-No. EC-No.	Concentration (% w/w)
Glycerol	--- 56-81-5 200-289-5	< 20

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 : Move to fresh air.
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 : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.
Drink water as a precaution.
Call a physician immediately.

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012

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 neededTreatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures**5.1 Extinguishing media**Suitable extinguishing media : Dry powder
Carbon dioxide (CO₂)
Foam
Water spray jet

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No information available.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)**5.3 Advice for firefighters**Special protective equipment for firefighters : 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 : Increased risk of slipping in the presence of leaked / spilled product.

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning upMethods 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

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Advice on safe handling : Wear personal protective equipment.
Never mix concentrates directly.
- Advice on protection against fire and explosion : No special protective measures against fire required. The product itself does not burn.
- 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****Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
Sodium cumenesulfonate	Workers	Skin contact	Long-term systemic effects	136,25 mg/kg
	Workers	Skin contact	Long-term local effects	0,096 mg/cm ²
	Workers	Inhalation	Long-term systemic effects	26,9 mg/m ³
2-aminoethanol	Workers	Skin contact	Long-term systemic effects	1 mg/kg
	Workers	Inhalation	Long-term local effects	3,3 mg/m ³
Sodim-etasulfate	Workers	Skin contact	Long-term systemic effects	4060 mg/kg
	Workers	Inhalation	Long-term systemic effects	285 mg/m ³
Subtilisin	Workers	Skin contact	Acute local effects	2000 ppm
	Workers	Inhalation	Long-term local effects	0,06 mg/m ³

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012**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
	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	0,025 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
Sodim-etasulfate	Fresh water	0,1357 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	0,06 mg/l
	Marine water	0,006 mg/l
	Effects on waste water treatment plants	65000 mg/l

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 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.

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : Avoid contact with skin and eyes.

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019

Date of last issue: 05.10.2017

Date of first issue: 03.04.2012

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	:	ca. 11 (20 °C)
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
Vapour density	:	No data available
Relative density	:	ca. 1,10 g/cm ³ (20 °C, 1.013 hPa)
Solubility(ies)	:	
Water solubility	:	in all proportions (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

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012**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:**

Acute oral toxicity : Acute toxicity estimate: > 5.000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 25 mg/l

Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg

Components:**Sodium cumenesulfonate:**Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

2-aminoethanol:

Acute oral toxicity : (Rat): 1.515 mg/kg

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012Method: 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**Sodim-etasulfate:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Alkylpolyethylen-glycol-polybutylen-glycolether: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:Acute oral toxicity : LD50: 1.800 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Alcohols, C13-15-branched and linear, butoxylated ethoxylated:Acute oral toxicity : LD50 (Rat): > 300 - < 2.000 mg/kg
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Remarks: not determined

Acute dermal toxicity : Remarks: not determined

Skin corrosion/irritation**Product:**Assessment : Causes skin irritation.
Method : Calculation method

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019

Date of last issue: 05.10.2017

Date of first issue: 03.04.2012

Components:**Sodium cumenesulfonate:**

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

Sodim-etasulfate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Causes skin irritation.

Alkylpolyethylen-glycol-polybutylen-glycolether:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Subtilisin:

Method : OECD Test Guideline 404
Result : Causes skin irritation.

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

Species : Rabbit
Method : OECD Test Guideline 404
Result : irritating

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

Assessment : Causes serious eye irritation.
Method : Calculation method

Components:**Sodium cumenesulfonate:**

Species : Rabbit
Assessment : Causes serious eye irritation.
Method : OECD Test Guideline 405

2-aminoethanol:

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

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012

Sodim-etasulfate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Causes serious eye damage.

Alkylpolyethylen-glycol-polybutylen-glycolether:

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

Subtilisin:

Method : OECD Test Guideline 405
Result : Causes serious eye damage.

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

Species : Rabbit
Assessment : Causes serious eye irritation.
Method : OECD Test Guideline 405

Respiratory or skin sensitisation**Components:****Sodium cumenesulfonate:**

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.

Sodim-etasulfate:

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

Alkylpolyethylen-glycol-polybutylen-glycolether:

Remarks : No data available

Subtilisin:

Result : Does not cause respiratory sensitisation.
Remarks : largely based on human evidence

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012**Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

Remarks : No data available

Germ cell mutagenicity**Components:****Sodium cumenesulfonate:**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 TestGenotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Application Route: Oral
Remarks: Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

2-aminoethanol:

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Sodim-etasulfate:

Germ cell mutagenicity- Assessment : No data available

Alkylpolyethylen-glycol-polybutylen-glycolether:

Genotoxicity in vitro : Remarks: Not classified due to data which are conclusive although insufficient for classification.

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.

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

Germ cell mutagenicity- Assessment : No data available

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012**Carcinogenicity****Components:****Sodium cumenesulfonate:**

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

2-aminoethanol:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Sodim-etasulfate:

Carcinogenicity - Assessment : No data available

Alkylpolyethylen-glycol-polybutylen-glycolether:

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

Subtilisin:

Carcinogenicity - Assessment : No data available

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

Carcinogenicity - Assessment : No data available

Reproductive toxicity**Components:****Sodium cumenesulfonate:**Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 3.000 mg/kg body weight
Developmental Toxicity: NOAEL F1: 3.000 mg/kg body weight

Reproductive toxicity - Assessment : study scientifically unjustified

2-aminoethanol:

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

Sodim-etasulfate:

Reproductive toxicity - Assessment : No data available

thermosept® X-tra *No Change Service!*Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012

Alkylpolyethylen-glycol-polybutylen-glycolether:

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

Subtilisin:

Reproductive toxicity - Assessment : No data available

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

Reproductive toxicity - Assessment : No data available

STOT - single exposure**Components:****Sodium cumenesulfonate:**

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

2-aminoethanol:

Assessment : May cause respiratory irritation.

Sodim-etatsulfate:

Remarks : No data available

Alkylpolyethylen-glycol-polybutylen-glycolether:

Remarks : No data available

Subtilisin:

Assessment : May cause respiratory irritation.

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

Remarks : No data available

STOT - repeated exposure**Components:****Sodium cumenesulfonate:**

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

2-aminoethanol:

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

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

Version Revision Date: Date of last issue: 05.10.2017
04.02 28.01.2019 Date of first issue: 03.04.2012

Sodim-etasulfate:

Remarks : No data available

Alkylpolyethylen-glycol-polybutylen-glycolether:

Remarks : No data available

Subtilisin:

Remarks : No data available

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

Remarks : No data available

Repeated dose toxicity**Components:****Sodium cumenesulfonate:**

Species : Mouse
NOAEL : 440 mg/kg
LOAEL : 1.300 mg/kg
Application Route : Dermal
Method : OECD Test Guideline 411
Target Organs : Skin
Remarks : Subchronic toxicity

Aspiration toxicity**Components:****Alkylpolyethylen-glycol-polybutylen-glycolether:**

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

Further information**Product:**

Remarks : The product has not been tested.

SECTION 12: Ecological information**12.1 Toxicity****Components:****Sodium cumenesulfonate:**

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

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

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019

Date of last issue: 05.10.2017

Date of first issue: 03.04.2012

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

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 2,5
mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox- : 1,2 mg/l
icity) : Exposure time: 30 d
Species: Oryzias latipes (Orange-red killifish)

Toxicity to daphnia and other : 0,85 mg/l
aquatic invertebrates (Chron- : Exposure time: 21 d
ic toxicity) : Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Sodim-etatsulfate:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l
Exposure time: 96 h

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

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

Alkylpolyethylen-glycol-polybutylen-glycolether:

Toxicity to fish : LC50 (Leuciscus idus): 1 - 10 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna): 0,1 - 1 mg/l
aquatic invertebrates : Exposure time: 48 h

Toxicity to algae : EC50 (algae): 0,1 - 1 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic tox- : 1
icity)

Toxicity to daphnia and other : NOEC: > 0,1 - < 1 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -t

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

Version Revision Date: Date of last issue: 05.10.2017
04.02 28.01.2019 Date of first issue: 03.04.2012

aquatic invertebrates (Chronic toxicity) Exposure time: 21 d
Species: Daphnia magna (Water flea)

Subtilisin:

Toxicity to fish : LC50 (Fish): 0,1 - 1 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 0,586 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (algae): 0,83 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

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

Toxicity to fish : LC50 (Leuciscus idus): 1 - 10 mg/l
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 : 0,1 - 1 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 : 0,1 - 1 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l

12.2 Persistence and degradability

Product:

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

Components:

Sodium cumenesulfonate:

Biodegradability : Result: Readily biodegradable.

2-aminoethanol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 21 d

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012

Method: OECD Test Guideline 301A

Sodim-etasulfate:

Biodegradability : Result: Readily biodegradable, according to appropriate OECD test.
Biodegradation: > 60 %
Exposure time: 14 d
Method: OECD 301D / EEC 84/449 C6

Alkylpolyethylen-glycol-polybutylen-glycolether:

Biodegradability : Result: Readily biodegradable, according to appropriate OECD test.

Subtilisin:

Biodegradability : Remarks: No data available

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

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5

12.3 Bioaccumulative potential**Components:****Sodium cumenesulfonate:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

2-aminoethanol:

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

Sodim-etasulfate:

Bioaccumulation : Remarks: No data available

Alkylpolyethylen-glycol-polybutylen-glycolether:

Bioaccumulation : Remarks: Accumulation in aquatic organisms is unlikely.

Subtilisin:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : Remarks: No data available

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

Bioaccumulation : Remarks: Does not significantly accumulate in organisms.

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012

12.4 Mobility in soil**Components:****Sodium cumenesulfonate:**

Mobility : Remarks: Not expected to adsorb on soil.

2-aminoethanol:

Mobility : Remarks: Not expected to adsorb on soil.

Sodim-etasulfate:

Mobility : Remarks: No data available

Alkylpolyethylen-glycol-polybutylen-glycolether:

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

Subtilisin:

Mobility : Remarks: Not applicable

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

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

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.

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

Version Revision Date: Date of last issue: 05.10.2017
04.02 28.01.2019 Date of first issue: 03.04.2012

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

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

Regulation (EC) No 850/2004 on persistent organic pollutants : 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 : none, Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

Other regulations:

The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria

thermosept® X-tra **No Change Service!**Version
04.02Revision Date:
28.01.2019Date of last issue: 05.10.2017
Date of first issue: 03.04.2012

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 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

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 concentra-

