

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Terralin protect

No Change Service!

Version 02.01

Revision Date 23.01.2008

Print Date 25.02.2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Terralin protect
Producer/Supplier : Schülke & Mayr UK Ltd.
Cygnet House
1, Jenkin road
S9 1AT South Yorkshire
United Kingdom
Telephone: +441142543500
Telefax: +441142543501
mail.uk@schulke.com
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Contact person : Product / Application advice
+49 (0)40/ 521 00 666
pab@schuelke.com

Emergency telephone : +441142543500
+49 (0)40 / 52 100 -0

Application : Disinfectants, Biocidal product type: 2

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

ICAO-Labels / Indication of danger:

C Corrosive
R22 Harmful if swallowed.
R34 Causes burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Components	CAS-No.	EC-No.	Symbol	R-phrase(s)	Concentration
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Benzyl-C12-18-alkyldimethylammonium, chlorides	68391-01-5	269-919-4	C, N	R21/22, R34, R50	22 %
2-Phenoxyethanol	122-99-6	204-589-7	Xn	R22, R36	10 - 20 %
Tridecylpolyethylenglycoether	69011-36-5		Xi	R41	5 - 15 %
Propan-2-ol	67-63-0	200-661-7	F, Xi	R11, R36, R67	3 - 8 %

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

4. FIRST AID MEASURES

- General advice : Take off all contaminated clothing immediately.
- Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes.
- Inhalation : Move the victim to fresh air and keep him calm. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
- Ingestion : Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

- Special protective equipment for fire-fighters : No special precautions required.
- Suitable extinguishing media : Water, Dry powder, Foam, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : No information available.
- Specific risk from the substance or the product itself, its combustion products or evolved gases : No special risks to be expected.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Increased risk of slipping in the presence of leaked / spilled product.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
- 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).

7. HANDLING AND STORAGE

Handling

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- Safe handling advice : Prepare the working solution as given on the label(s) and/or the user instructions. Avoid exceeding of the given occupational exposure limits (see section 8). Wear personal protective equipment. Avoid formation of aerosol.
- Advice on protection against fire and explosion : The hot product gives off combustible vapours.

Storage

- Requirements for storage areas and containers : Store at room temperature in the original container.
- Further information : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed.
- Advice on common storage : Keep away from food and drink.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value	Basis
Propan-2-ol	67-63-0	AGW: 500 mg/m ³ AGW: 200 ppm	TRGS 900
2-Phenoxyethanol	122-99-6	AGW: 110 mg/m ³ AGW: 20 ppm	TRGS 900

Personal protective equipment

- Respiratory protection : If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time. Respiratory protection complying with EN 141. Recommended Filter type: A
- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

- Form : liquid
- Colour : green
- Odour : pleasant

Other data

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solidification range	:	< -5 °C
initial boiling point	:	ca. 90 °C
Flash point	:	51 °C Method: DIN 51755 Part 1
Flammability	:	Does not sustain combustion.
Density	:	ca. 1,0 g/cm ³ at 20 °C
Water solubility	:	at 20 °C in all proportions
pH	:	ca. 8,6 at 1.000 g/l (20 °C)
Viscosity, dynamic	:	ca. 21 mPa*s at 20 °C Method: ISO 3219

10. STABILITY AND REACTIVITY

Hazardous reactions	:	None reasonably foreseeable.
Hazardous decomposition products	:	None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Further information	:	No data is available on the product itself. The classification was made according to the calculation procedure of the Preparations Directive.
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12. ECOLOGICAL INFORMATION

Biodegradability	:	Readily biodegradable. Method: OECD 301D / EEC 84/449 C6
Toxicity to daphnia	:	EC50 Daphnia magna (Water flea) 0,18 mg/l Testing period: 48 h Method: OECD Test Guideline 202 GLP: yes Analytical monitoring: yes
Chemical Oxygen Demand (COD)	:	ca. 13640 mg/l Test substance: 1% solution
Further information	:	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to

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them, at their direct request or at the request of a detergent manufacturer.
Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

13. DISPOSAL CONSIDERATIONS

- 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		
	Class	8		
	Classification Code	C9		
	Packaging group	III		
	ADR/RID-Labels	8 + 11		
	ICAO-Labels	80		
	Description of the goods	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Benzyl-C12-18-alkyldimethylammonium, chlorides)		
IMDG	: UN-Number	1903		
	Class	8		
	EmS	F-A, S-B		
	Packaging group	III		
	Marine pollutant	--		
	Description of the goods	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (BENZYL-C12-18-ALKYLDIMETHYLAMMONIUM, CHLORIDES)		
IATA	: UN-Number	1903		

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Class	8
Packaging group	III
Description of the goods	Disinfectant, liquid, corrosive, n.o.s. (Benzyl-C12-18-alkyldimethylammonium, chlorides)

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

15. REGULATORY INFORMATION

Hazardous components:

- Benzyl-C12-18-alkyldimethylammonium, chlorides

General advice : The product is classified and labelled in accordance with EC directives or respective national laws.

Symbol :



C

Corrosive

R-phrase(s) : R22 Harmful if swallowed.
R34 Causes burns.

S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 This material and its container must be disposed of in a safe way.
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).

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

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

Further information : Use biocides safely. Always read the label and product information before use.

National legislation

VOC-Content : 22 %
Directive 1999/13 /EC on the limitation of emissions of volatile organic compounds

VOC-Content : 0,05 kg/kg
Switzerland. VOC Ordinance, Annex II (Products)

Switzerland : Registration number: CHZN0073

16. OTHER INFORMATION

Application : Information on uses can be found in a separate preparation / product brochure.

Text of R-phrases mentioned in Section 2

R11	Highly flammable.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R67	Vapours may cause drowsiness and dizziness.

Other information

Caution! All information concerns the concentrated product!

The information given is only of use for possible safety requirements and is based on our actual knowledge. This information does not guarantee any properties. It is the responsibility of the receiver / user of our products to follow existing laws and regulations.

|| Changes compared with the previous edition!!!