according to Regulation (EC) No. 1907/2006 (REACH)

00320PE0026

 PERFEKTAN TB
 Printed
 07/11/2008

 Page 1/7
 Revision
 03/11/2008

1. Identification of the substance / preparation

Name of product: Perfektan TB

Use of the preparation disinfectant for surgical instruments

Manufacuturer/distributor Dr. Schumacher GmbH

Post box 11 62; D-34201 Melsungen

Germany

Phone ++49 5664 9496-0; Fax: ++49 5664 8444

Information contact GBK Gefahrgutbüro GmbH

sds@gbk-ingelheim.de

Emergency telephone ++49 (0) 6132 84463

2. Hazards identification

Classification Hazards statements

C Corrosive

R-Phrases

34 Causes burns.

3. Composition / information on ingredients

Chemical characterization

Aqueous solution containing detergents and solvents

Hazardous ingredients

CAS-No.	EC-No.	Name	weight-%	Classification
107879-22-1		N,N-Didecyl-N-methyl-poly(oxyethyl) ammoniumpropionate	< 10	C, Xn, N R22-34-50
68439-46-3		Alcoholethoxylate C9-C11	< 10	Xn, Xi R22-41
85681-60-3		Alkylpropylendiamine-1,5-bis- guanidiniumacetate	< 5	C, Xn, N R10-22-34-50

Full text of R-phrases: see section 16.

4. First Aid Measures

(for additional information see chapter 16: Other information)

General Advice

 $\label{lem:lemove contaminated} Remove \ contaminated, \ saturated \ clothing \ immediately.$

If you feel unwell, seek medical advice.

In case of inhalation

In case of inhalation of vapour or decomposition products, move affected person into fresh air. If symptoms persist, call a physician.

In case of skin contact

00201 2002

according to Regulation (EC) No. 1907/2006 (REACH)

00320PE0026

 PERFEKTAN TB
 Printed
 07/11/2008

 Page 2/7
 Revision
 03/11/2008

Wash off immediately with soap and plenty of water.

If skin irritation persists, call a physician.

In case of eye contact

In case of contact with the eyes, rinse with plenty water also under the eyelids for at least 15 minutes. Consult an ophthalmologist.

In case of ingestion

Do not induce vomiting. Rinse mouth with water. Drink plenty of water.

Seek medical advice and show the container or label.

Attention! Danger of suffocation because of foaming ingredients.

5. Fire - Fighting measures

(for additional information see chapter 16: Other information)

Suitable extinguishing media

Product itself does not burn, co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons

High volume water jet

Special exposure hazards arising from the substance or preparation itself, combustion products or resulting gases

Fire may produce:

Carbon monoxide (CO), dioxide (CO2) and nitrogen oxides (NOX).

Special protective equipment for fire-fighters

Use a self contained breathing apparatus with independent air supply.

Protective clothing.

Further information

Cool containers at risk with water spray.

6. Accidental release measures

(for additional information see chapter 16: Other information)

Personal precautions

In case of vapour formation (high concentration) use a respirator.

Ensure adequate ventilation.

Wear personal protective clothing.

Environmental precautions

Do not flush into surface water, ground water or sanitary sewer system.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Take up mechanically, placing in appropriate container for disposal.

7. Handling and storage

(for additional information see chapter 16: Other information)

Handling

Advice on safe handling

Keep container tightly closed.

according to Regulation (EC) No. 1907/2006 (REACH)

00320PE0026

 PERFEKTAN TB
 Printed
 07/11/2008

 Page 3/7
 Revision
 03/11/2008

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation, especially in confined areas.

Precautions against fire and explosion

No special protective measures against fire required.

Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.

Hints on storage assembly

Incompatible with oxidising agents.

Further information on storage conditions

Keep away from food, drinks and animal feeding stuffs.

Storage class (VCI) 8 B

8. Exposure controls / personal protection

(for additional information see chapter 16: Other information)

Exposure controls

Engineering measures to reduce exposure

Ensure adequate ventilation, especially in confined areas.

General protection measures

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Remove contaminated clothing immediately and wash before reuse.

Avoid contact with eyes and skin and clothing.

Respiratory Protection

In case of inadequate ventilation (high concentration) wear suitable respiratory equipment (gas filter type A).

Hand protection

Protective gloves

Suitable protective gloves:

This recommendation is solely based on the chemical compatibility and the test after EN 374 under laboratory conditions. According to the use varying requirements may develop. Therefore the recommendations of the protective glove distributor have to be considered additionally.

Material	Thickness of the glove material	Breakthrough time (maximal wear duration)
CR (polychloroprene, chloroprene rubber)	0.5 mm	> = 4 h
NBR (nitrile rubber)	0.35 mm	> = 4 h
Butyl (butyl rubber)	0.5 mm	> = 8 h
FKM (fluoro rubber)	0.4 mm	> = 8 h
PVC (polyvinyl chloride)	0.5 mm	> = 4 h

Eye protection

Eye glasses with side protection, tightly fitting safety goggles.

Eye wash bottle with pure water.

Skin and body protection

according to Regulation (EC) No. 1907/2006 (REACH)

00320PE0026

PERFEKTAN TB

Printed 07/11/2008 Page 4/7 Revision 03/11/2008

Long sleeved clothing

9. Physical and chemical properties

General information

Physical state liquid Colour green Odour perfumed

Important health, safety and environmental information

pH - Value (20 °C) ca. 9 (concentrate)

Change in physical state

Melting point n. d. Boiling point app. 100 ℃ Flash point n.a.

Flammability

Explosion limits lower n. d. Ignition temperature n. d.

Specific gravity (20 ℃) ca. 1 g/cm³ Solubility in water miscible **Dynamic viscosity** ca. 20 mPa*s

10. Stability and reactivity

(for additional information see chapter 16: Other information)

Conditions to avoid

To avoid thermal decomposition, do not overheat.

Material to avoid

Strong oxidising agents.

Hazardous decomposition products

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOX).

Further information

No decomposition if stored and applied as directed.

11. **Toxicological Information**

(for additional information see chapter 16: Other information)

Human practical experience

Causes burns.

12. **Ecological Information**

(for additional information see chapter 16: Other information)

N,N-didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate:

according to Regulation (EC) No. 1907/2006 (REACH)

00320PE0026

 PERFEKTAN TB
 Printed
 07/11/2008

 Page 5/7
 Revision
 03/11/2008

CL 50/Brachydanio rerio/96h = 0,78 mg/l (OCDE 203) CE 50/Daphnia magna/48h = 0,07 mg/l (OCDE 202)

EbCSO / Scenedesmus subspicatus/72h = 0,15 mg/l (OCDE 201)

Akylpropylendiamine-1,5-bis-guanidiniumacetate: CL 50/Brachydanio rerio/96h = 0,1 -1,0 mg/l

Persistence and degradability

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

General information

Do not flush concentrate into surface water, ground water or sanitary sewer system.

Concentrate is water-endangering. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. Disposal information

Recommendation

Where possible recycling is preferred to disposal. Can be incinerated according to the local regulations.

Waste code No.

070699

Wastes from organical-chemical processes; wastes from fats, lubricants, soaps, disinfectants, detergents and hygiene products; wastes not otherwise specified.

Appropriate disposal / packaging

Empty containers should be taken to a registered recycling company.

Contaminated packaging is to be emptied optimally, after adequate cleaning it can be disposed to recycling. Packaging which is impossible to clean is to be disposed like the product.

Recommended material for cleaning

Water

14. Transport Information

Land transport (ADR/RID)

ADR/RID class 8
Classification code C9
Hazard No. 80
UN-No. 1903
Hazard label 8
ADR/RID packing group III
Limited quantity (LQ) LQ 7

Official transport designation

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. ((Didecylmethyl-poly(oxyethyl)ammoniumpropionate)

Remark

LQ 7: combination packaging: 5 I / 30 kg; trays: 5 I / 20 kg (total gross weight).

Inland waterway craft (ADN/ADNR)

Marine transport (IMDG)

according to Regulation (EC) No. 1907/2006 (REACH)

00320PE0026

 PERFEKTAN TB
 Printed
 07/11/2008

 Page 6/7
 Revision
 03/11/2008

IMDG class8UN-No.1903Marine pollutantNoEMS-No.F-A, S-BLimited quantity (LQ)5 l / 30 kgIMDG packing groupIIIHazard label8

Proper shipping name

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. ((Didecylmethyl-poly(oxyethyl)ammoniumpropionate)

Remark

Limited quantity (chapter 3.4): combined packaging: 5 l / 30 kg (gross weight); trays: 5 l / 20 kg (total gross weight).

Air transport (ICAO-TI / IATA-DGR)

ICAO/IATA class 8 UN/ID-No. 1903 Hazard label 8 IATA packing instructions – passenger 818 IATA maximum quantity - passenger 5 L IATA packing instructions - cargo 820 IATA maximum quantity - cargo 60 L ICAO packing group Ш Limited quantity (LQ) passenger Y818 / 1 L

Proper shipping name

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. ((Didecylmethyl-poly(oxyethyl)ammoniumpropionate)

Special provisions

Germany / postage: national: max. 3000 ml per item; max. 6000 ml per package; international: not allowed

15. Regulatory information

Labelling

Hazards statements

C Corrosive

Classification regulations

According to EC hazardous substance regulations in compliance with the EC guidelines this product must be labelled as:

R-Phrases

34 Causes burns.

S-Phrases

26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

This material and its container must be disposed of in a safe way.

39 Wear suitable protective clothing, protective gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

Avoid release to the environment. Refer to special instructions / safety data sheets.

National regulations

Restrictions of occupation

Observe restrictions of occupation for juvenils (acc. to § 22

according to Regulation (EC) No. 1907/2006 (REACH)

00320PE0026

 PERFEKTAN TB
 Printed
 07/11/2008

 Page 7/7
 Revision
 03/11/2008

JArbSchG). Observe employment restrictions for pregnant and nursing

mothers (acc. to §§ 4 and 5 MuSchRiV).

Störfallverordnung Observe regulations of StörfallVO.

Technische Anleitung Luft II 5.2.5: Organic compounds, m >= 0.50 kg/h: Conc.. 0,1 g/m³

Weight fraction < 10 %

Technische Anleitung Luft III 5.2.5: Organic compounds, m >= 0.50 kg/h: Conc.. 50 mg/m³

Weight fraction < 20 %

Water hazard class (WGK) 2 - water endangering (WGK II)

Classification according VwVwS, Annex 4; No.3

Informations according 1999/13/EC about limitation of emissions of volatile organic compounds

(VOC-guideline)

VOC-value 5 %

16. Other information

Full wording of the R-phrases specified in chapter 2 and 3

- 10 Flammable.
- 22 Harmful if swallowed.
- 34 Causes burns.
- 41 Risk of serious damage to eyes.
- Very toxic to aquatic organisms.

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of knowledge. It does not constitute a guarantee for the characteristics of the described product(s) as defined by the legal warranty regulations. The delivery specifications are contained in the corresponding product sheet.

(n. a. - not applicable, n. d. - not determined)

(The data of the hazardous substances are based on the current material data safety sheets of the supplier.)