



Bacoban[®]

For Aerospace

Material safety data sheet according to EC-directive 1907/2006 (REACH)

Product name:

version: 2.2

Bacoban[®] For Aerospace

Date of issue: 02.06.2005

adapted 09.12.2010

Print date: 09.10.2012

01. Substance/preparation and company identification

Product name

Bacoban[®] For Aerospace

Use:

Surface disinfectant

Company

Fraser's Aerospace

Street

185 – 187 High Road, Chadwell Heath

Zip Code/town

Romford, Essex, RM6 6NR

Phone:

+44 20 8597 8781

Telefax

+44 20 8597 8673

E-Mail

contact@alex-fraser.co.uk

Emergency

+44 20 8597 8781

02. Hazards Identification

According to 1272/2008/EC, appendix VII;

R 34: causes burns.

C

R 50: Very toxic to aquatic organisms.

N

Classification according to 67/548/EWG or guideline 1999/45/EC

03. Composition/Information on ingredients

Chemical characterisation

15-30% cationic Tenside, include disinfectant

other ingredients: care component, water soluble solvent, fragrance (Citronellol, Citral, Geranio, Limonene, Linalool)

100 g solution includes:

26,0 g Benzalkoniumchloride, 2,5 g Pyridin-2-thiol-1-oxid, sodium salt



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Hazardous ingredients

Chemical substance	CAS-Nr.	EG-Nr./ EINECS/ELIN CS	content (%)	Classification/declaration		remark
				Symbol	R-phrase	
Benzalkoniumchloride	68424-85-1	270-325-2	15 - 30	C, N	21/22-34-50	
Diethylenglykole	111-46-6	203-872-2	15 - 30	Xn	22	AGW/MAK (average day value): Germany/Austria/ Swiss: 44 mg/m ³
polymers	---	---	5 - 15	Xi	38	
Pyridin-2-thiol-1-onid, sodium salt	3811-73-2	223-296-5	1 - 5	Xn, N	20/21/22-36/38- 50	AGW/MAK (average day value): Germany/Austria/ Swiss: 1 mg/m ³

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

04. First-aid measures

If inhaled:

No exposition expected by intended use.

On skin contact:

Wash skin with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

On contact with eyes:

Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

On ingestion:

Immediately rinse mouth and then drink plenty of water. Do not induce vomiting. Seek immediate medical attention.

Note to physician:

Gastric lavage using a cuffed endotracheal tube may be performed at medicines decision.



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05. Fire-fighting measures

Suitable extinguishing media:

The product is non-combustible. Suitable extinguishing media: water, dry extinguishing media, foam.

Special protection equipment during the fire fighting:

Respirator and protective clothing carry.

06. Accidental release measures

Technical preventive measures:

Remove ignition sources. Provide a good aeration.

Protection of individual's measures:

Carry eye protector, protection gloves and protection smocks. Carry respiratory protection during bad aeration.

Environmental protection measures:

Keep away from drains, waters and soil.

Procedure for the cleaning:

Take up mechanically or with liquid-binding material and in closed container of the disposal supply. Suitable bonding agents: Sand (to damming), wood flour or universal binder.

07. Handling and storage

Handling:

Avoid contact with skin and eyes.

Do not mix with other products. Use personal protective equipment (PPE) (see chapter 08)

Storage:

storage stability: store above 0°C; keep away from temperatures over 40°C

08. Exposure controls/personal protection

Threshold limit values: -

Technical preventive measures:

Work only in well ventilated areas, accomplish under flow or exhaust. Plan emergency shower and eye bath.

Industrial hygiene:

Avoid contact with the eyes and the skin. Do not inhale steams. Do not carry dirty clothes. Wash hands and face after the work. Pay attention to preventing skin protection before and after the work.



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Respiratory protection:

Pay attention to personal respiratory protection during the occurrence of steams or aerosols in larger quantity (design-proved suitable protective mask with P3-Partikel-Filter and/or A2/P3 - combination filters).

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials short-term contact and/or splashes (recommended: at least protective index 2, corresponding < 30 minutes of permeation time according to EN 374)

Butyl rubber (butyl): 0,7 mm coating thickness

Nitrile rubber (NBR): 0,4 mm coating thickness

Eye protection:

Tightly fitting safety goggles (cage goggles) according to EN 166:2001

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

09. Physical and chemical properties

Appearance:

form: liquid
 color: green/grey
 odour: product specific/perfume

Sicherheitsrelevante Daten:

danger of explosion: the product is not potentially explosive,

Parameter	value	Unit	Methode	remark
lower explosion limit	product is not potentially explosive			
upper explosion limit				
vapour pressure	not determined			
density	1,03–1,05	g/ml	gravimetric	
viscosity	not determined			
miscibility with water	Miscible in all proportions			



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pH-value	5 - 7			
boiling point/range	not determined			
flash point	---			
ignition temperature	---			

10. Stability and reactivity

Incompatible materials and conditions:

Incompatible with strong oxidizing agents

Dangerous decomposition products: not known

Dangerous reactions: -

11. Toxicological Information

According mathematical method (1999/45/EC)

Toxicological control:

No data available (formulation)

Acute Toxicity:

Benzalkoniumchloride

Acute toxicity	value	species	method	remark
LD50 (oral)	600 mg/kg	Ratte	IUCLID	
LD50 (dermal)	1.560 mg/kg	Ratte	IUCLID	

Irritation:

Benzalkoniumchloride

primary skin irritation: corrosive

primary mucous membrane irritation: strong corrosive

Gentoxicity:

Benzalkoniumchloride

Evaluation Mutagenicity: the chemical indicate at bacteria no mutagenic effect

Pyridin-2-thiol-1-oxid, sodium salt:

Acute oral toxicity: LD50: 1500 mg/kg (rat)

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Acute dermal toxicity: LD50: 1800 mg/kg (rabbit)

Acute inhalative toxicity: -

primary skin irritation: irritation

primary mucous membrane irritation: irritation

Sensibilisierung: no sensitisation

Practical experience:

Inhalation: No expositions by inhalation by intended use

Skin contact: corrosive on skin and mucous membranes.

Eye contact: corrosive (danger of blindness)

Swallow: corrosive inside of the mouth and danger for perforation of gullet and stomach

12. Ecological information

Ecotoxicity

No data available (formulation).

Ecotoxicity of ingredients:

Benzalkoniumchloride:

LC50 (96h): < 1 mg/l (Oncorhynchus mykiss)

LC50 (48h): < 1 mg/l (Daphnia magna)

LC50 (72h): < 1 mg/l (Slenastrum capricornutum (green alga))

EC10: 1-10 mg/l, activated sludge

Pyridin-2-thiol-1-oxid, sodium salt

LC50 (48h, static): 0,15 mg/l (Daphnia magna)

LC50 (96h, dynamic): 1300 mg/l (Oncorhynchus mykiss)

Test organism	Effective concentration	Method	evaluation
Daphnia magna	0,02 – 21 mg/l	OECD 2002	NOEC: 0,02 mg/l (48 h)
Slenastrum capricornutum (green alga)	0,01 – 1,3 mg/l	OECD 201	NOEC: 0,08 mg/l (72 h)
Oncorhynchus mykiss	13 – 3200 µg/l	EPA	NOEC: 13 µg/l (96 h)



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Mobility

No data available (formulation)

Bioaccumulation:

No data available (formulation).

PBT-property

No data available (formulation).

Other deleterious effect

No data available (formulation)

13. Disposal considerations

EAK/AVV- Waste code according to the hazardous waste list directive

07 06 04

Package

Contaminated package

15 01 10

Cleaned package

15 01 02

14. Transport Information

Road and rail GGVSEB, ADR, RID

Class: 8

Hazard identification No.: 80

UN-Nr: 1903

Packing group: III

Label: 8

Name : UN 1903 disinfectant, liquid, corrosive, n.o.s. (quaternary ammonium compounds)

Sea IMDG, GGVSee

IMDG-GGVSee class: 8

UN-Number: 1903

Ems: F-A, S-D

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Label: 8

Marine Pollutant: No

Severe marine Pollutant: No

Technical name: disinfectant, liquid, corrosive, n.o.s. (quaternary ammonium compounds)

LQ: Netto inside package 5 l; gross premium total 30 kg

Air transport, PAX

UN 1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium compounds)

ADR/RID-class: 8

Packing group: III

Max. Netto per package = 5.00 L

Air transport, CAO

UN 1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium compounds),

IATA-class: 8,

Packing group: III,

max. Netto per package = 60.00 L

15. Regulatory information

Regulations of the European Union (Labelling) [67/548/EWG und 1999/45/EG]/national legislation/regulations

C, N



Corrosive



Dangerous for the environment

Labelling according to 1272/2008/ec

Not been performed (cause: formulation)

R-Phrase: 34

Causes burns.

50

Very toxic to aquatic organisms.

S-Phrase: 26

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

36/37/39

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



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- | | |
|----|---|
| 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| 61 | Avoid release to the environment. Refer to special instructions/safety data sheets. |

National legislation

water hazard class:

WGK 1 (according to VwVwS from 17.05.1999, app. 2): light water pollutant

16. Other information

Full text of R-phrase if mentioned as hazardous components in chapter 2 and 3

- | | |
|------------|---|
| R 20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R 22 | Harmful if swallowed. |
| R 34 | Causes burns. |
| R 36/38 | Irritating to eyes and skin. |
| R 38 | Irritating to skin. |
| R 50 | Very toxic to aquatic organisms. |

Other information

The information presented herein is compiled in accordance with our best knowledge and are based on the present state of knowledge and experience. It is not possible to guarantee completeness of this information. This material safety data sheet does not represent any guarantee or assurance of the properties of the preparation. sarastro GmbH does not assume any responsibility for possible claims resulting from unqualified handling or contact with these chemicals.