



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

Product name:  
Bacoban® WB

version: 2.2

Date of issue: 02.06.2005

adapted 09.12.2010

Print date: 10.01.2011

### 01. Substance/preparation and company identification

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Product name  
Bacoban® WB

Use:  
Surface disinfectant

Company	Adexano Spezialprodukte für Gesundheit, Pflege und Prävention GmbH
Street	Bildstocker Straße 12
Zip Code/town	DE – 66538 Neunkirchen
Phone:	+49 (0)6821 – 91277 60
Telefax	+49 (0)6821 – 91277 79
E-Mail	info@adexano.com
Emergency	+49 (0)551 19240 (Giftnotrufzentrale GIZ Nord)

### 02. Hazards Identification

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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

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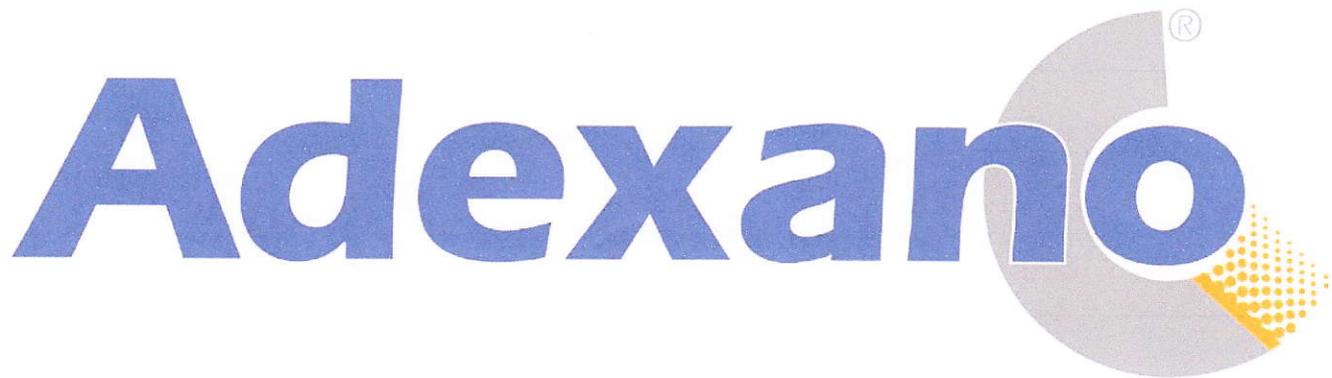
#### Chemical characterisation

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 <sup>3</sup>
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 <sup>3</sup>

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

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#### 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

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#### 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

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#### 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

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#### Threshold limit values: -

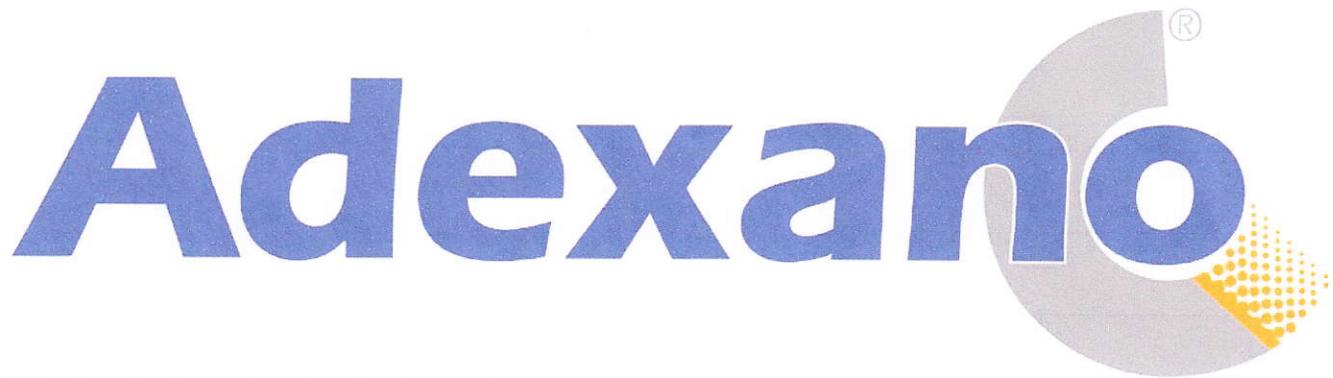
#### Technical preventive measures:

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.

#### Respiratory protection:



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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**

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



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ignition temperature	---			
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**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)

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

Acute inhalative toxicity: -

primary skin irritation: irritation

primary mucous membrane irritation: irritation

Sensibilisierung: no sensitisation



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### Practical experience:

**Inhalation:** No expositions by inhalation by indented 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

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### 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)

### Mobility

No data available (formulation)

### Bioaccumulation:

No data available (formulation).

### PBT-property

No data available (formulation).

### Other deleterious effect

No data available (formulation)



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### 13. Disposal considerations

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#### 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

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#### 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  
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,

# Adexano<sup>®</sup>

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Packing group: III,  
max. Netto per package = 60.00 L

### 15. Regulatory information

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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.
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

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#### 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.



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**Other information**

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**Data sheet responsible person**

Dr. Dirk Kreisler (Dipl.-Chem.), phone: +49 6825 / 800 890

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