



**Safety Data Sheet** according to regulation (EC) 1907/2006 (REACH) and regulation (EC) 2015/830

Trade name:  
Bacoban® DL

Version: 3.2

Revision: 21.10.2015

Issue: 21.10.2015

Print date: 07.12.2015

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

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**1.1. Product identifiers**

Article-No. (manufacturer/supplier): X-BAC500DL, X-BACDLTUE  
Identification of the substance or mixture Bacoban DL

**1.2. Relevant identified uses of the substance or mixture and uses advised against relevant identified uses:**

Surface Disinfectant concentrate (Medical Accessories)

**1.3. Details of the supplier of the safety data sheet**

**Supplier (manufacturer/importer/downstream user/distributor)**

Ropimex R. Opel GmbH (Geschäftsbereich Hygiene-Systeme Adexano)  
Bildstocker Straße 12 Telephone: +49 - (0)6821 / 91277 60  
D – 66538 Neunkirchen Telefax: +49 - (0)6821 / 91277 79  
E-Mail info@ropimex.com

**Dept. responsible for information:**

E-Mail (competent person) info@ropimex.com

**1.4. Emergency telephone number**

Emergency Telephone of Company / Undertaking +49 - (0)6825 / 9591 - 0 (08:00 am- 4:00 pm)  
Counselling centre for poisoning +49 (0)551 19240 (Giftnotrufzentrale GIZ Nord)

**SECTION 2. Hazards identification**

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**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This mixture is not classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]..

**2.2. Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms:**

Hazard statements

n.a.

**Precautionary statements**

n.a.

**contains:**

n.a.

**Supplemental Hazard information (EU)**

n.a.

**Supplemental Hazard information**

n.a.

**2.3. Other hazards**



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**SECTION 3. Composition / information on ingredients**

**3.2. Mixtures**

**Hazardous ingredients:**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

EG-No	REACH-No.	wt% /
CAS-No	Chemical name	Remark
INDEX-No	classification	
270-325-2		0,25 – 0,50
68424-85-1	Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl-, chlorides Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Corr. 1B H314 / Aquatic Acute 1 H400	
223-296-5	01-2119493385-28-0000	0,01 – 0,05
3811-73-2	Pyridine-2-thiol-1-oxide, sodium salt Acute Tox. 4 H302 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	

**100 g solution contains:**

0,26 g Benzalkoniumchloride, 0,025 g Pyridine-2-thiol-1-oxide, sodium salt

**Additional information**

Full text of classification: see section 16

**SECTION 4. First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.



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### 4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

### 4.3. Indication of any immediate medical attention and special treatment needed

## SECTION 5. Firefighting measures

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### 5.1. Extinguishing media

#### Suitable extinguishing media

Resistant foam, carbon dioxide, Powder, spray mist, (water)

#### Extinguishing media which must not be used for safety reasons:

Strong water jet

### 5.2. Special hazards arising from the substance or mixture

Provide a conveniently located respiratory protective device.

### 5.3. Advice for firefighters:

Provide a conveniently located respiratory protective device..

#### Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

## SECTION 6. Accidental release measures

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### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## SECTION 7. Handling and storage

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### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts,



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particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

### Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight.

Due to the content of organic solvents in the preparation:

Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks..

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use. Read label before use.

## SECTION 8. Exposure controls / personal protection

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### 8.1. Control parameters

#### Occupational exposure limit values:

n.a.

#### Additional information:

n.a.

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### Occupational exposure controls

##### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

##### Hand protection



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For prolonged or repeated handling the following glove material must be used: nitrile rubber or butyl rubber with at least 0.7 mm thickness

Thickness of the glove material  $\geq$  0,7 mm

Breakthrough time (maximum wearing time)  
> 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye protection**

Wear closely fitting protective glasses in case of splashes.

**Protective clothing**

Wear antistatic clothing of natural fibres (cotton) or heat resistant synthetic fibres.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

**SECTION 9. Physical and chemical properties**

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

**Appearance:**

**Physical state:** liquid  
**Colour:** colourless  
**Odour:** typical

**Safety relevant basis data**

Parameter	Value	Unit	Method	Remark
Flash point	> 100	°C	DIN 51755 Teil 1	
Ignition temperature	n.d.	°C		
Lower explosion limit	n.a.			
Upper- explosion limit	n.a.			
Vapour pressure at 20 °C	n.d.			
Density at 20 °C	1,00	g/cm <sup>3</sup>		
Water solubility	Completely miscible	g/L		
pH at 20°C	6			
Viscosity at 20 °C	2	mPa·s		

**9.2. Other information**



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### SECTION 10. Stability and reactivity

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#### 10.1. Reactivity

n.a.

#### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

#### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

#### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

#### 10.5. Incompatible materials

#### 10.6. Hazardous decomposition products

Hazardous decomposition by-products may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

### SECTION 11. Toxicological Information

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Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

No data on preparation itself available.

#### 11.1. Information on toxicological effects

##### Acute toxicity

Pyridine-2-thiol-1-oxide, sodium salt

oral, LD50, rat: 1208 mg/kg

dermal, LD50, rabbit: 1800 mg/kg

inhalative (dust and mist), LC50, rat: 1,08 mg/L (4 h)

quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl-, chlorides

oral, LD50, rat: 240 mg/kg

dermal, LD50, rat: 1560 mg/kg.

##### skin corrosion/irritation

##### Serious eye damage/eye irritation

Pyridine-2-thiol-1-oxide, sodium salt

Skin, rabbit. (4 h)

Method: OECD 404

Causes skin irritation.

##### Respiratory or skin sensitisation

Toxicological data are not available.

##### Specific target organ toxicity

Toxicological data are not available.

##### Aspiration hazard





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Toxicological data are not available.

### Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system.

Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases:

unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

### Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

### Remark:

There is no information available on the preparation itself.

## SECTION 12. Ecological information

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### Overall evaluation

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP] There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

### 12.1. Toxicity

#### Pyridine-2-thiol-1-oxide, sodium salt

Fish toxicity,

LC50, *Oncorhynchus mykiss*: 0,0066 mg/L (96 h)

Daphnia toxicity,

EC50, *Daphnia magna* (big water flea): 0,022 mg/L (48 h)

Algae toxicity,

ErC50, *Selenastrum capricornutum*: 0,46 mg/L.

### Long-term Ecotoxicity

Toxicological data are not available.

### 12.2. Persistence and degradability

#### Pyridine-2-thiol-1-oxide, sodium salt

Evaluation: Readily biodegradable (according to OECD criteria).

Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

### 12.3. Bioaccumulative potential

#### Pyridine-2-thiol-1-oxide, sodium salt

Distribution coefficient (n-Octanol/water): -2,64

Evaluation: On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.



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**Bioconcentration factor (BCF)**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT and vPvB assessment.**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

**SECTION 13. Disposal considerations**

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**13.1. Waste treatment methods**

**Appropriate disposal / Product**

**Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

200129                                     detergents containing dangerous substances

**Packaging**

**Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14. Transport information**

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**No dangerous good in sense of this transport regulation**

**14.1. UN-number**                                     n.a.

**14.2. UN proper shipping name**  
n.a.

**14.3. Transport hazard class(es)**             n.a.

**14.4. Packing group**                                n.a.

**14.5. Environmental hazards**

Land transport (ADR/RID)                     n.a.

Marine pollutant                                 no

**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 – 8

Additional information

**Land transport (ADR/RID)**

Tunnel restriction code                        -

**Sea transport (IMDG)**

EmS-Nr.   n.a.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**





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n.a.

**SECTION 15. Regulatory information**

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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

**National legislation**

**Restrictions of occupation**

n.a.

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this preparation were not carried out.

**SECTION 16. Other information**

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**Full text of classification in section 3:**

Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage

**Revised version:**

Layout revision according Regulation (EC) 2015/830

**Abbreviations and acronyms:**

n.a. not available

n.d. not determined

**Additional information**

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]. The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in



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Chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.