

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

Trade name:
Bacoban® Concentrate End-User

Version: 1.3

Revision: 30.01.2019

Issue: 30.01.2019

Print date: 12.03.2019

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

1.1. Product identifiers

Article-No. (manufacturer/supplier): Rx-107
 Identification of the substance or mixture Bacoban® Concentrate End-User

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

Surface cleaner and sanitizer concentrate

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor)

nSTRATA™14843 - 118 Ave, Edmonton,
 Alberta, Canada T5L 2M7

Tel: 1 780 801 6244

Dept. responsible for information:

E-Mail (competent person) info@nstrata.tech

1.4. Emergency telephone number

Emergency Telephone of Company / Undertaking 1 780 801 6244 (08:00 am- 4:00 pm)
 Counselling centre for poisoning CANUTEC 1-613-996-6666

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]..

Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.

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:



Danger

Hazard statements

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P310 Immediately call a POISON CENTER or doctor/ physician.
 P391 Collect spillage

contains:

2,2'-Oxydiethanol, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl-, chlorides

Supplemental Hazard information (EU)

n.a.

2.3. Other hazards

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	
203-872-2		25 - 30
111-46-6	2,2'-Oxydiethanol	
603-140-00-6	Acute Tox. 4 H302	
270-325-2		25 – 35
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl-, chlorides Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Corr. 1B H314 / Aquatic Acute 1 H400	
200-580-7	01-2119475328-30-XXXX	1 – 2,5
64-19-7	Acetic acid	
607-002-00-6	Flam. Liq. 3 H226 / Skin Corr. 1A H314	
201-134-4	01-2119474016-42-xxxx	0,1 - 1
78-70-6	Linalool	
603-235-00-2	Skin Sens 1; H317	

100 g solution contains:

33,31 g Benzalkoniumchloride

Additional information

Full text of classification: see section 16 (H-phrases)

SECTION 4. First aid measures

4.1. Description of first aid measures

General information

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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.

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

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

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

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Observe protective provisions (see chapter 7 and 8).

SECTION 7. Handling and storage

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, 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

8.1. Control parameters

Occupational exposure limit values:

Acetic acid (INDEX-No. 607-002-00-6 / EG-No. 200-580-7 / CAS-No. 64-19-7)

TRGS 900, AGW, TWA: 25 mg/m³; 10 ppm TRGS

900, AGW, STEL: 50 mg/m³; 20 ppm

2,2'-Oxydiethanol (INDEX-No. 603-140-00-6 / EG-No. 203-872-2 / CAS-No. 111-46-6)

TRGS 900, AGW, TWA: 44 mg/m³; 10 ppm

TRGS 900, AGW, STEL: 176 mg/m³; 40 ppm

Additional information:

TWA: long-term occupational exposure limit value

STEL: short-term occupational exposure limit value

Ceiling: peak limitation

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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

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

Physical state:	liquid
Colour:	colourless - yellowish
Odour:	typical
Odour threshold:	n.d.

Safety relevant basis data

Parameter	Value	Unit	Method	Remark
pH value	3,5 – 5,5 4,0 – 6,0			1000 g/l (20°C) 10g/l (20°C)
Melting point/range	n.d.	°C		
Boiling point/range	n.d.	°C		
Flash point	>100	°C	DIN 51755 part	

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			1	
Evaporation rate	n.a.			
Lower explosion limit	n.a.			
Upper- explosion limit	n.a.			
Vapour pressure at 20 °C	n.d.			
Density at 20 °C	1,04 – 1,08	g/cm ³	20°C	
solubility	fully miscible with water	g/L		
Partition coefficient (n-octanol/water)	n.a.			
Thermal decomposition	n.d.			
Viscosity at 20 °C	42	mPa·s		
Decomposition temperature	n.d.	°C		
Ignition temperature	355	°C		

n.a.: non-applicable

n.d.: not determined

9.2. Other information
SECTION 10. Stability and reactivity

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

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

Inhalation

n. a.

Ingestion

ATEmix: 843 mg/kg

Benzalkonium Chloride: LD50/oral/rat=447 mg/kg)

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Skin contact	ATEmix: > 5000 mg/kg
Irritation / corrosion (to skin/eye)	Causes severe skin burns and eye damage
Sensitisation	May cause an allergic skin reaction.
Carcinogenicity	n. a.
Mutagenicity	n. a.
Teratogenicity	n. a.
Specific target organ toxicity	n.a.
Specific target organ toxicity, repeated exposure	n.a.
Narcotic effect	none

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

12.1. Toxicity

very toxic to aquatic organisms

Benzalkonium chloride:

EC50/48h/Daphnia = 0,0059 – 0,052 mg/l

LC50/96h/Oncorhynchus mykiss = 0,923 mg/l

EC50/72h/Algae = 0,8 mg/l

12.2. Persistence and degradability

No data available for the product

12.3. Bioaccumulative potential

n. a.

Bioconcentration factor (BCF): n.a.

12.4. Mobility in soil

n. a.

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

COD-Value [mg/g] n. a.

BSB5-Value [mg/g] n. a.

AOX-Remarks The product includes organic halogen compounds

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Ecological significant components -
Other adverse effects Not applicable

SECTION 13. Disposal considerations

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

	ADR	IMDG	IATA
14.1	UN number		
	1903	1903	1903
14.2	UN proper shipping name		
	UN 1903 Disinfectant, liquid, corrosive n.o.s. (contains: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)	UN 1903 Disinfectant, liquid, corrosive n.o.s. (contains: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)	UN 1903 Disinfectant, liquid, corrosive n.o.s. (contains: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)
14.3	Transport hazard class(es)		
	8 	8 	8 
14.4	Packing group		
	III	III	III
14.5	Environmental hazards		
		YES	
14.6	Special precautions for user		
	Tunnel restriction code: E Transport category: 3 Classification Code: C9 Hazard-No.: 80 LQ: 5 L	F-A, S-B	Packing Instructions (passenger): 852 Packing Instructions (cargo): 856
17.7	Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code		
		None	

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SECTION 15. Regulatory information

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

EU legislation

National legislation

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

WGK 2

15.2. Chemical safety assessment

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

SECTION 16. Other information

Full text of classification in section 3:

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life

Revised version:

Chapter 9.1: Completion of not available (n.a.) or not determined (n.d.) safety relevant basis data.

Abbreviations and acronyms:

n. a.	not available
NB	not determined

Additional information

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.