

Safety data sheet
according to 1907/2006/EC, Article 31



702100

Revision: 25.03.2021
Printing date: 25.03.2021

SECTION 01: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:**
BEROPUR VA 15 - Conservation spray
- **Article number:**
80015484591
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
This safety data sheet contains an exposure scenario in an integrated form.
The product is intended for professional use.
- **Application of the substance / the preparation**
Protection wax
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Beropur AG
Feldstr. 8
CH-8370 Sirmach
Telefon: 0041 - 71960 0727
Telefax: 0041 - 71960 0728
E-Mail: service@beropur.ch
Internet: <http://www.beropur.ch>
- **Further information obtainable from:**
Product safety department.
- **1.4 Emergency telephone number:**
Schweizerisches Toxikologisches Informationszentrum (STIZ): Tel. +41 44 251 66 66 24h-
Notfallnummer: +41 145 www.toxi.ch

SECTION 02: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02

Aerosol 1 - H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

STOT SE 3 - H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**



GHS02 GHS07

- **Signal word**
Danger
- **Hazard-determining components of labelling:**

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Hydrocarbons C9-C10, n-alkanes, iso-alkanes, cyclics, <2% aromatics /
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

- **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH208 Contains Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:**

Not applicable.

- **vPvB:**

Not applicable.

SECTION 03: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**

- **Description:**

Mixture of waxes

Propellant gas

- **Dangerous components:**

CAS Number		%
106-97-8	butane EC number: 203-448-7 substance with a Community workplace exposure limit. ⚠ Flam. Gas 1A - H220; ⚠ Press. Gas (Comp.) - H280	25,0 - <50,0
	Hydrocarbons C9-C10, n-alkanes, iso-alkanes, cyclics, <2% aromatics EC number: 927-241-2 Record number 01-2119471843-32 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ STOT SE 3 - H336; Aquatic Chronic 3 - H412	10,0 - <20,0
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics EC number: 919-857-5 Record number 01-2119463258-33 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3	5 - <10,0

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74-98-6	- H226; STOT SE 3 - H336 propane EC number: 200-827-9 substance with a Community workplace exposure limit. Flam. Gas 1A - H220; Press. Gas (Comp.) - H280 5 - <10,0
61789-86-4	Sulfonic acids, petroleum, calcium salts EC number: 263-093-9 Record number 01-2119488992-18 Skin Sens. 1B - H317 5 - <10,0
<ul style="list-style-type: none"> • Additional information: For the wording of the listed risk phrases refer to section 16. 	

SECTION 04: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Swallowing is not presumable (aerosol can).
- **Information for doctor:**
- **4.2 Most important symptoms and effects, both acute and delayed**
Headache
Disziness
Vertigo
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 05: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Foam, dry powder, carbon dioxide, water mist
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Can form explosive gas-air mixtures.
Fire gas of organic material has to be classed invariably as respiratory poison.
Vapours are heavier than air and spread on ground.
Product possibly swims up on surface and reinflames.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

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- **Additional information**

Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Heat increases pressure - aerosol cans may burst.

SECTION 06: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/ aerosol.

- **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.

- **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.
Absorb liquid components with liquid-binding material.
Dispose of the material collected according to regulations.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 07: Handling and storage

- **Handling:**

- **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Keep away from sources of ignition - No smoking
Avoid contact with eyes and skin.
In case of formation of aerosols an adequate exhaustion is necessary.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.
Store away from oxidising agents.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

- **7.3 Specific end use(s)**

No further relevant information available.

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SECTION 08: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

106-97-8	butane		
MAK (CH)			
	Short-term value	7600	mg/m³
		3200	ppm
	Long-term value	1900	mg/m³
		800	ppm
74-98-6	propane		
MAK (CH)			
	Short-term value	7200	mg/m³
		4000	ppm
	Long-term value	1800	mg/m³
		1000	ppm

- **DNELs**

**Hydrocarbons C9-C10, n-alkanes, iso-alkanes,
cyclics, <2% aromatics**

Dermal, DNEL: 77 mg/kg/d (worker)
Dermal, DNEL: 46 mg/kg/d (consumer)
Inhalative, DNEL: 871 mg/m³/d (worker)
Inhalative, DNEL: 185 mg/m³/d (consumer)
Oral, DNEL: 46 mg/kg/d (consumer)

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes,
cyclics, <2% aromatics**

Dermal, DNEL: 208 mg/kg/d (worker)
Inhalative, DNEL: 871 mg/m³/d (worker)

- **Additional information:**

The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Do not eat, drink, smoke or sniff while working.
Apply solvent resistant skin cream before starting work.
Use skin protection cream for skin protection.
Be sure to clean skin thoroughly after work and before breaks.
Do not carry product impregnated cleaning cloths in trouser pockets.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Combined filter: Particle-filtering half mask (filter P2 or P3) and gas filter type AX

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Solvent resistant gloves

- **Material of gloves**

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material: $\geq 0,7$ mmPermeation time ≥ 480 minutes

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Safety glasses

- **Body protection:**

Flame retardant and antistatic protective clothing

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Aerosol
Colour:	Light beige
Odour:	Mild
Odour threshold:	Not determined.
pH-value:	Not applicable.

Change in condition

Initial boiling point and boiling range:	< -30,0 °C
Flash point:	< -60,0 °C Theoretical value Not applicable, as aerosol.
Flammability (solid, gas):	Not applicable.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	1,40 Vol %
Upper:	10,80 Vol %
Vapour pressure:	Not determined.
Density:	Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	29,67 %
VOC (EC)	560,00 g/l 74,6891 %
Solids content:	26,00 %

9.2 Other information

No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity**
No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Danger of bursting.
Forms explosive gas mixture with air.
- **10.4 Conditions to avoid**
Flames, sparks, heat.
- **10.5 Incompatible materials:**
Strong oxidizing agents
- **Dangerous reactions**
Forms explosive gas mixture with air.
- **10.6 Hazardous decomposition products:**
Danger of forming toxic pyrolysis products.
- **Additional information:**
No further relevant information available.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**
 - 106-97-8 butane**
Inhalative, LC50/4h: 658 mg/l (rat)
Hydrocarbons C9-C10, n-alkanes, iso-alkanes, cyclics, <2% aromatics
Oral, LD50: > 5000 mg/kg (rat)
Dermal, LD50: > 5000 mg/kg (Rabbit)
 - Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**
Oral, LD50: > 5000 mg/kg (rat)
Dermal, LD50: > 5000 mg/kg (Rabbit)
Inhalative, LC50: > 5000 mg/l (rat) (8h, vapour)
 - 61789-86-4 Sulfonic acids, petroleum, calcium salts**
Oral, LD50: >16000 mg/kg (rat)
Dermal, LD50: >=4001 mg/kg (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation**
Frequent resp. persistent skin contact may degrease skin, what may cause skin complaints and dermatitis.
- **Serious eye damage/irritation**
No irritating effect.
- **Respiratory or skin sensitisation**
May produce allergic reactions
Specific Concentration Limit for CAS-No. 61789-86-4: >= 10 %
- **Additional toxicological information:**
The risk assessment of the preparation concerning adverse health effects is based on the available data.
After inhalation of vapors: irritations of mucous membranes, drowsiness; in high doses: head aches, nausea, vomiting, dizziness, narcosis
Contact with eyes may cause irritation.

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Inhalation of spray mist / aerosols may cause irritation of the mucous membranes of respiratory tract.
Frequent resp. persisting skin contact may lead to skin complaints and dermatitis.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
The substance is not known as mutagenic. The substance is not known as cancerogenic. The substance is not known as toxic to reproduction.
- **STOT-single exposure**
The classification criteria are met
- **STOT-repeated exposure**
Based on available data, the classification criteria are not met.
- **Aspiration hazard**
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
61789-86-4 Sulfonic acids, petroleum, calcium salts
LC50: >=10000 mg/l (Activated sludge)
- **12.2 Persistence and degradability**
No further relevant information available.
- **Behaviour in environmental systems:**
- **12.3 Bioaccumulative potential**
No further relevant information available.
- **12.4 Mobility in soil**
No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.
- **12.6 Other adverse effects**
No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
After prior treatment product has to be landfilled or incinerated adhering to the regulations pertaining to the disposal of especially hazardous waste.
- **Waste disposal key:**
The waste key number has to be specified acc. European Waste Catalogue (depending on branches and processes).
- **Uncleaned packaging:**
- **Recommendation:**
Also empty containers are still contaminated and have to be disposed by specialists or must be subjected to recondition. Waste key number: 150110 (EAK)

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SECTION 14: Transport information

- **14.1 UN-Number**

ADR UN1950

IMDG UN1950

IATA UN1950

- **14.2 UN proper shipping name**

ADR 1950 AEROSOLS

IMDG AEROSOLS

IATA AEROSOLS, FLAMMABLE

- **14.3 Transport hazard class(es)**

ADR

Class 2 (5F) Gases.

Label **2.1**



IMDG

Class 2.1

Label **2.1**



IATA

Class 2.1

Label **2.1**



- **14.4 Packing group**

ADR -

IMDG -

IATA -

- **14.5 Environmental hazards:**

Not applicable.

- **14.6 Special precautions for user**

Warning: Gases.

Danger code (Kemler): 23

EMS Number: F-D,S-U

- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **Transport/Additional information:**

Not applicable.

Excepted quantities (EQ): E0

Limited quantities (LQ): 1L

Transport category: 2

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Tunnel restriction code D
IMDG
Limited quantities (LQ) 1L
Excepted quantities (EQ) E0

- **UN "Model Regulation":**
UN 1950 AEROSOLS, 2 (2.1)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **REGULATION (EC) No 1907/2006 ANNEX XVII**
Conditions of restriction: 3, 40
- **National regulations:**
For components with workplace-related limit values → that require monitoring, see Section 8.1
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out for the mixture.

SECTION 16: Other information

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. The information is believed to be correct, but comprehensive and is to be used for guidance only, which is based on current knowledge of the chemical or mixture and applicable to appropriate safety precautions for the product.

- **Relevant phrases**

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
VCI: Verband der chemischen Industrie, Deutschland (German chemical industry association)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic

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- vPvB: very Persistent and very Bioaccumulative
- *** Data compared to the previous version altered.**