

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



702000

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 18/65
- **Article number:**
80018650090
- **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**
Cavity wax / Corrosion protection
- **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**



GHS08

STOT RE 1 - H372 Causes damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Eye Irrit. 2 - H319 Causes serious eye irritation.
STOT SE 3 - H336 May cause drowsiness or dizziness.



GHS09

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

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



702000

Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT : BEROPUR VA 18/65

(Contd. of page 1)

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



GHS08 GHS02 GHS07 GHS09

- **Signal word**
Danger

- **Hazard-determining components of labelling:**
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
- **Hazard statements**
H372 Causes damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
H226 Flammable liquid and vapour.
H319-EUH066 Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
EUH208 Contains Rape oil, reaction products with diethylenetriamine. May produce an allergic reaction.
- **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P370+P378 In case of fire: Use to extinguish: CO₂, powder or water spray.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
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:**
Anti-corrosion-additives, mineraloil, hydrocarbons, waxes, pigments

- **Dangerous components:**

CAS Number		%
64742-82-1	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) EC number: 927-344-2 Record number 01-2119463586-28 STOT RE 1 - H372, Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; STOT SE 3 -	25,0 - <50,0

(Contd. on page 3)

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



702000

Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT :		BEROPUR VA 18/65
<i>(Contd. of page 2)</i>		
8002-74-2	H336; Aquatic Chronic 2 - H411 Paraffin waxes and Hydrocarbon waxes EC number: 232-315-6 Record number 01-2119488076-30 substance with a Community workplace exposure limit.	1 - <2,5
91081-13-9	Rape oil, reaction products with diethylenetriamine EC number: 293-615-0 Record number 01-2120743155-59 Skin Sens. 1B - H317	1 - <2,5
9046-01-9	fatty alcohol ethoxylated, phosphated EC number: 933-356-9 Record number 02-2119683787-16 Eye Dam. 1 - H318; Skin Irrit. 2 - H315; Aquatic Chronic 3 - H412	1 - <2,5
<p>• Additional information: For the wording of the listed risk phrases refer to section 16.</p>		

SECTION 04: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **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. Then consult a doctor.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Seek immediate medical advice.
- **Information for doctor:**
If swallowed or in the event of vomiting may cause aspiration into the lungs which can be fatal.
- **4.2 Most important symptoms and effects, both acute and delayed**
Headache
Dizziness
Vertigo
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

CH

(Contd. on page 4)

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



702000

Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT : BEROPUR VA 18/65

(Contd. of page 3)

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 reignflames.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
As possible remove the container from the source of fire.
Avoid afflux of combustible material.

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.
Extinguish naked flames. No smoking. Avoid sparks.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
In case of seepage into the ground inform responsible authorities.
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
Send in suitable containers for recovery or disposal.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Dispose of the material collected according to regulations.
Embank large quantities and pump with an ex-proof apparatus in containers.
- **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.
Prevent formation of aerosols.
Use solvent-proof equipment.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Tightly reclose container after each use.

(Contd. on page 5)

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



702000

Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT : BEROPUR VA 18/65

(Contd. of page 4)

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.
A use at temperatures not higher than 20 °C above ambient temperature is presumed.

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

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Handle only outside or in explosion protected rooms.
Fumes can combine with air to form an explosive mixture.
Danger of explosion if fluid enters the sewage system.
Flammable gas-air mixtures may form in empty receptacles.

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

• **Storage:**

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

Store in a cool location.
Provide solvent resistant, sealed floor.
Prevent any seepage into the ground.

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

Store away from foodstuffs.
Store away from oxidising agents.

• **Further information about storage conditions:**

Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.

• **7.3 Specific end use(s)**

No further relevant information available.

SECTION 08: Exposure controls/personal protection

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

64742-82-1 Hydrocarbons, C9-C10, n-alkanes, isoalkanes,
cyclics, aromatics (2-25%)

TWA (***)

Long-term value	400	mg/m ³
	75	ppm

RCP

8002-74-2 Paraffin waxes and Hydrocarbon waxes

MAK (CH)

Long-term value	2 a	mg/m ³
-----------------	-----	-------------------

• **DNELs**

64742-82-1 Hydrocarbons, C9-C10, n-alkanes, isoalkanes,
cyclics, aromatics (2-25%)

Dermal, DNEL: 44 mg/kg/d (worker)
Dermal, DNEL: 26 mg/kg/d (consumer)
Inhalative, DNEL: 330 mg/m³/d (worker)
Inhalative, DNEL: 71 mg/m³/d (consumer)
Oral, DNEL: 26 mg/kg/d (consumer)

• **Additional information:**

The lists valid during the making were used as basis.

(Contd. on page 6)

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



702000

Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT : BEROPUR VA 18/65

(Contd. of page 5)

- **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
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
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 A, colour brown)
Respiratory protection in the event of aerosol or mist formation
During spraying wear a respirator conforming to EN 140 with Type A filter.
- **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
Protective gloves
Solvent resistant gloves
- **Material of gloves**
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.
Gloves of nitrile rubber (thickness $\geq 0,38$ mm; permeation ≥ 480 min)
Nitrile rubber, NBR
Recommended thickness of the material: $\geq 0,7$ mm
Permeation 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
Tightly sealed goggles
- **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:	Liquid
Colour:	Beige
Odour:	Mild
Odour threshold:	Not determined.
pH-value:	Not applicable.

(Contd. on page 7)

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



702000

Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT : BEROPUR VA 18/65

(Contd. of page 6)

Change in condition	
Initial boiling point and boiling range:	135,0 °C
Flash point:	35,0 °C Abel-Pensky (DIN 51755)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	240,00 °C
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	0,60 Vol %
Upper:	6,50 Vol %
Vapour pressure:	at 20,00 °C 3,0000 hPa
Density:	0,9350 g/cm ³ 15°C
Solubility in / Miscibility with water:	
	Not miscible or difficult to mix.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	at 23,00 °C 25,00 s DIN 4 mm
Solvent content:	
Organic solvents:	39,94 %
VOC (EC)	373,55 g/l 39,9520 %
Solids content:	60,00 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Flames, sparks, heat.
- **10.3 Possibility of hazardous reactions**
No dangerous reactions known.
- **10.4 Conditions to avoid**
No further relevant information available.
- **10.5 Incompatible materials:**
Strong oxidizing agents
- **Dangerous reactions**
No dangerous reactions known.
- **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:**
64742-82-1 Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

(Contd. on page 8)

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



702000

Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT : BEROPUR VA 18/65

(Contd. of page 7)

Oral, LD50: > 15000 mg/kg (rat) (OECD 401)
Dermal, LD50: 34000 mg/kg (rat) (OECD 402)

8002-74-2 Paraffin waxes and Hydrocarbon waxes

Oral, LD50: >5000 mg/kg (rat)
Dermal, LD50: >5000 mg/kg (rat)

91081-13-9 Rape oil, reaction products with diethylenetriamine

Oral, LD50: >2000 mg/kg (rat)
Dermal, LD50: >2000 mg/kg (Rabbit)

- **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**
Irritating effect.
- **Respiratory or skin sensitisation**
May produce allergic reactions
Specific Concentration Limit for CAS-No. 91081-13-9: >= 5,5 %
- **Additional toxicological information:**
Irritant
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, disziness, etc.
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
Frequent resp. persisting skin contact may lead to skin complaints and dermatitis.
- **CMR effects (carcinogenity, 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**
The classification criteria are met
- **Aspiration hazard**
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
 - 64742-82-1 Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**
EC50/72h: 4,6-10 mg/l (alga)
LC50/96h: 10-30 mg/l (fish)
EC50/48h: 10-22 mg/l (daphnie)
Fresh water, NOELR/72h: 0,22 mg/l (alga)
 - 91081-13-9 Rape oil, reaction products with diethylenetriamine**
EC50/72h: >100 mg/l (alga)
LC50/96h: >100 mg/l (fish)
EC50/48h: >100 mg/l (daphnie)
- **12.2 Persistence and degradability**
Not easily biodegradable
- **Behaviour in environmental systems:**

(Contd. on page 9)

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



702000

Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT : BEROPUR VA 18/65

(Contd. of page 8)

- **12.3 Bioaccumulative potential**
No further relevant information available.
- **12.4 Mobility in soil**
No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**
Toxic for fish
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.

Biodegradability:

64742-54-7 Distillates (petroleum), hydrotreated heavy: Readily biodegradable with a mean degradation of 31 % (28 d, OECD TG 301 B)

- **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)

SECTION 14: Transport information

- **14.1 UN-Number**
- ADR UN1139
- IMDG UN1139
- IATA UN1139
- **14.2 UN proper shipping name**
- ADR 1139 COATING SOLUTION
- IMDG COATING SOLUTION (TURPENTINE SUBSTITUTE, ETHANOL (ETHYL ALCOHOL))
- IATA COATING SOLUTION
- **14.3 Transport hazard class(es)**
- ADR
- Class 3 (F1) Flammable liquids.

(Contd. on page 10)

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

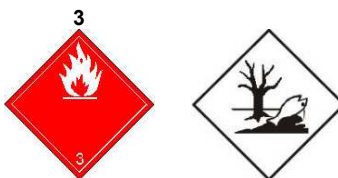


702000

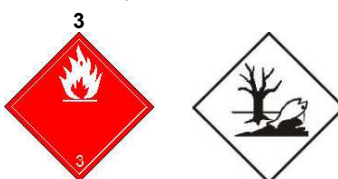
Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT : BEROPUR VA 18/65

(Contd. of page 9)

Label**IMDG**

3 Flammable liquids.

Class**Label****IATA**

3 Flammable liquids.

Class**Label**

- **14.4 Packing group**

ADR III

IMDG III

IATA III

- **14.5 Environmental hazards:**

Marine pollutant: Yes

- **14.6 Special precautions for user**

Warning: Flammable liquids.

Danger code (Kemler): 30

EMS Number: F-E,S-E

- **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): E1

Limited quantities (LQ): 5L

Transport category: 3

Tunnel restriction code: D/E

IMDG

Limited quantities (LQ): 5L

Excepted quantities (EQ): E1

- **UN "Model Regulation":**

UN 1139 COATING SOLUTION, 3, III, ENVIRONMENTALLY HAZARDOUS

CH

(Contd. on page 11)

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



702000

Revision: 25.03.2021
Printing date: 25.03.2021

PRODUCT : BEROPUR VA 18/65

(Contd. of page 10)

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**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
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
vPvB: very Persistent and very Bioaccumulative
- *** Data compared to the previous version altered.**