

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Product name:	Rivolta K.S.P. 440 nonVOC	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified uses:	Anticorrosion product	
Uses advised against:	No uses advised against identified.	

### 1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier	Bremer & Leguil GmbH Am Burgacker 30 - 42 47051 Duisburg / Germany info@bremer-leguil.de
Telephone:	+49(0)203/9923-0
<b>Contact Person:</b> E-mail:	Bremer & Leguil GmbH - Product Safety Management product-safety@bremer-leguil.de
1.4 Emergency telephone number:	+49 (0)613119240 (Giftinformationszentrum Mainz 00:00-24:00)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

### Classification according to Regulation (EC) No 1272/2008 as amended.

Hazard summary Physical Hazards:	No data available.
2.2 Label Elements	
	EUH208: Contains Calcium Sulfonate. May produce an allergic reaction.
	EUH210: Safety data sheet available on request.
2.3 Information on other haz- ards	By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.
Endocrine disrupting prop- erties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Com- mission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



Results of PBT and vPvB assessment:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very
	bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### General information:

Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	REACH Registra- tion No.	Notes
base oil, low viscous	EINECS: 276-738-4	20,00% - <50,00%	01-2119474889-13	
Base oil, low viscous	EINECS: 265-169-7	1,00% - <10,00%	01-2119471299-27	
Calcium Sulfonate	EINECS: 263-093-9	1,00% - <5,00%	01-2119488992-18	
Base oil, low viscous	EINECS: 265-157-1	1,00% - <10,00%	01-2119484627-25	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

### Classification

Chemical name	Identifier	Classification	
base oil, low viscous	EINECS: 276-738-4	CLP: Asp. Tox. 1;H304	
Base oil, low viscous	EINECS: 265-169-7	CLP: Asp. Tox. 1;H304	
Calcium Sulfonate	EINECS: 263-093-9	CLP: Skin Sens. 1B;H317	
Base oil, low viscous	EINECS: 265-157-1	CLP: Asp. Tox. 1;H304	

CLP: Regulation No. 1272/2008.

### specific concentration limit

Chemical name		specific concentra- tion limit		Category	Hazard state- ments
Calcium Sulfonate	EINECS: 263-093-9	>= 10 %	Skin sensitizer	1B	H317

For the wording of the listed hazard statements refer to section 16.

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Nota L/ Nota N of Annex VI of Regulation EC 1272/2008."

## **SECTION 4: First aid measures**

General:

Instantly remove any clothing soiled by the product.

### 4.1 Description of first aid measures

Inhalation:	Supply fresh air; consult doctor in case of symptoms.
Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids.
Skin Contact:	Wash with soap and water.



Ingestion:	Rinse mouth thoroughly.	
4.2 Most important symptoms and effects, both acute and delayed:	May cause skin and eye irritation. Symptoms may be delayed.	
4.3 Indication of any immediate medical attention and spe- cial treatment needed	e Get medical attention if symptoms occur.	
SECTION 5: Firefighting measures	S	
5.1 Extinguishing media		
Suitable extinguishing me- dia:	CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added	
Unsuitable extinguishing media:	Water with a full water jet.	
5.2 Special hazards arising from the substance or mix- ture:	During fire, gases hazardous to health may be formed.	
5.3 Advice for firefighters		
Special fire-fighting proce- dures:	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.	
Special protective equip- ment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	

6.1 Personal precautions, pro- tective equipment and emergency procedures:	In case of spills, beware of slippery floors and surfaces.
6.2 Environmental Precautions:	Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.
6.4 Reference to other sec- tions:	See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.



## SECTION 7: Handling and storage:

7.1 Precautions for safe han- dling:	Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil prod- ucts or chemical products. Observe good industrial hygiene practices. Pro- vide adequate ventilation.
7.2 Conditions for safe storage, including any incompatibili- ties:	Local regulations concerning handling and storage of waterpolluting prod- ucts have to be followed. Do not heat up to temperatures close to the flash point.
7.3 Specific end use(s):	No data available.
Storage Class:	10, Combustible liquids

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

### **Occupational Exposure Limits**

Chemical name	Туре	Exposure Limit Values	Source
Calcium Sulfonate - Respira- ble fraction.	AGW	5 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (11 2015)
Base oil, low viscous - Res- pirable fraction.	MAK	5 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as amended (07 2022)

### 8.2 Exposure controls

Appropriate engineering controls: Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

General information:	Wash hands before breaks and after work. Use personal protective equip- ment as required. Personal protection equipment should be chosen accord- ing to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be ad- hered to inhandling the chemicals or the mineral oil products.
Eye/face protection:	Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.



Skin protection Hand Protection:	Material: Nitrile butyl rubber (NBR). Min. Breakthrough time: >= 480 min Recommended thickness of the material: >= 0,38 mm Avoid long-term and repeated skin contact. Suitable gloves can be recom- mended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety direc- tions. The exact break through time has to be found out by the manufactur- er of the protective gloves and has to be observed.
Other:	Do not carry cleaning cloths impregnated with the product in trouser pock- ets. Wear suitable protective clothing.
Respiratory Protection:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.
Thermal hazards:	Not known.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated foot- wear that cannot be cleaned.
Environmental Controls:	No data available.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Light brown
Odor:	Characteristic
pH:	substance/mixture is non-soluble (in water)
Freezing point:	Not applicable
Boiling Point:	not determined
Flash Point:	135 °C
Flammability (solid, gas):	not determined
Explosion Limit - Upper (%):	Not applicable for mixtures
Explosion Limit - Lower (%):	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Density:	1,05 g/ml (15,00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Auto-ignition temperature:	not determined
Decomposition Temperature:	not determined
Kinematic viscosity:	> 20,5 mm2/s (40 °C)



Particle characteristics: 9.2 Other information	Not applicable No data available.
SECTION 10: Stability and reactiv	ity
10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and oth- er toxic gases or vapors.

## SECTION 11: Toxicological information

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Acute toxicity

Oral Product:	Not classified for acute toxicity based on available data.
Specified substance(s) base oil, low viscous	LD 50 (Rat): > 5.000 mg/kg (OECD 401)
Base oil, low viscous	LD 50 (Rat): > 5.001 mg/kg (OECD 423)
Calcium Sulfonate	LD 50 (Rat): > 16.000 mg/kg
Base oil, low viscous	LD 50 (Rat): > 5.000 mg/kg (OECD 423)
Dermal Product:	Not classified for acute toxicity based on available data.
Specified substance(s) Base oil, low viscous	LD 50 (Rabbit): > 5.001 mg/kg (OECD 402)
Calcium Sulfonate	LD 50 (Rat): > 5.001 mg/kg
Base oil, low viscous	LD 50 (Rabbit): > 5.000 mg/kg (OECD 402)
Inhalation Product:	Not classified for acute toxicity based on available data.
Specified substance(s) Base oil, low viscous	LC 50 (Rat, 4 h): > 5 mg/l (OECD 403) Dust and mist



Skin Corrosion/Irritation: Product: Specified substance(s) Base oil, low viscous	Based on available data, the classification criteria are not met.	
	OECD 404 Not irritant	
Calcium Sulfonate	OECD 404 (Rabbit): Not irritant.	
Serious Eye Damage/Eye Irr Product: Specified substance(s)	itation: Based on available data, the classification criteria are not met.	
Base oil, low viscous	OECD 405 Not irritating	
Respiratory or Skin Sensitization:		
Product: Specified substance(s) Calcium Sulfonate	Experimental data has shown that the concentration of potentially sensitiz- ing components present in this product does not induce skin sensitization.	
	May cause sensitization by skin contact.	
Germ Cell Mutagenicity Product:	Based on available data, the classification criteria are not met.	
Carcinogenicity Product:	Based on available data, the classification criteria are not met.	
Reproductive toxicity Product:	Based on available data, the classification criteria are not met.	
Specific Target Organ Toxicity - Single Exposure   Product: Based on available data, the classification criteria are not met.		
Specific Target Organ Toxic Product:	ity - Repeated Exposure Based on available data, the classification criteria are not met.	
Aspiration Hazard Product:	Based on available data, the classification criteria are not met.	
11.2 Information on other haz- ards		
Endocrine disrupting propert Product:	ies The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Com- mission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	



## **SECTION 12: Ecological information**

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Acute toxicity Product:	Based on available data, the classification criteria are not met.
Fish Specified substance(s) Base oil, low viscous	LD 50 (Oncorhynchus mykiss, 96 h): > 101 mg/l (OECD 203)
Calcium Sulfonate	LC 50 (Fish, 96 h): > 10.000 mg/l (OECD 203)
Base oil, low viscous	LC 50 (Fish, 96 h): > 101 mg/l (OECD 203)
Aquatic Invertebrates Specified substance(s) base oil, low viscous	EL50 (Water Flea, 48 h): > 10.000 mg/l (OECD 202)
Base oil, low viscous	EC 50 (Water Flea, 48 h): > 10.000 mg/l (OECD 202)
Calcium Sulfonate	EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)
Base oil, low viscous	EC 50 (Water Flea, 48 h): > 10.000 mg/l (OECD 202)
Chronic ToxicityProduct:	Based on available data, the classification criteria are not met.
Fish Specified substance(s) base oil, low viscous	NOEC (Fish, 14 d): > 1.000 mg/l
Aquatic Invertebrates Specified substance(s) base oil, low viscous	NOEC (Water Flea, 21 d): 10 mg/l (OECD 211)
Base oil, low viscous	NOEC (Daphnia magna, 21 d): 10 mg/l (OECD 211)
Toxicity to Aquatic Plants Specified substance(s) base oil, low viscous	NOEC (Alga, 72 h): > 100 mg/l (OECD 201)
Base oil, low viscous	EC 50 (Alga, 72 h): > 101 mg/l (OECD 201)
Base oil, low viscous	EC 50 (Alga, 72 h): > 101 mg/l
12.2 Persistence and Degradabili	ity
Biodegradation Product:	Not applicable for mixtures
Specified substance(s) Base oil, low viscous	31 % (28 d, OECD 301F) Not readily degradable.
Calcium Sulfonate	8,6 % (28 d) Not easily biodegradable
12.3 Ripaccumulative potential	

## 12.3 Bioaccumulative potential Product:

Not applicable for mixtures



12.4 Mobility in soil: Product:	Not applicable for mixtures
12.5 Results of PBT and vPvE assessment:	The product does not contain any substances fulfilling the PBT/vPvB crite- ria.
12.6 Endocrine disrupting properties	
Product:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Com- mission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects:	No data available.
Water Hazard Class (WGK):	WGK 1: slightly water-endangering.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

General information:	Dispose in accordance with all applicable regulations.
Disposal methods:	Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.
European Waste Codes	12.01.07*, minaral based machining ails free of balagens (event amul

12 01 07\*: mineral-based machining oils free of halogens (except emulsions and solutions)

## SECTION 14: Transport information

### ADR/RID

14.1 UN number or ID number:	_
14.2 UN Proper Shipping Name:	_
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	_
Hazard No. (ADR):	_
Tunnel restriction code:	-
14.4 Packing Group:	-
14.5 Environmental hazards:	_
14.6 Special precautions for user:	_



IMDG 14.1 UN number or ID number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	-
Class:	Non-dangerous goods
Label(s):	_
EmS No.:	_
14.3 Packing Group:	-
14.5 Environmental hazards:	-
14.6 Special precautions for user:	-
ΙΑΤΑ	
14.1 UN number or ID number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es): Class: Label(s):	– – Non-dangerous goods –
14.4 Packing Group:	-
14.5 Environmental hazards:	-
14.6 Special precautions for user:	-

14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

### **SECTION 15: Regulatory information**

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

### **EU Regulations**

EU. Regulation 2024/590/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

**National Regulations** 

Water Hazard Class (WGK):	WGK 1: slightly water-endangering.
15.2 Chemical safety as-	No Chemical Safety Assessment has been carried out.

sessment:

DIRECTIVE 2012/18/EU (SEVESO III) on the control of major-accident hazards involving dangerous substances

Not applicable

### **SECTION 16: Other information**

**Revision Information:** 

Vertical lines in the margin indicate an amendment.



### Wording of the H-statements in section 2 and 3

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
Other information:	The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: - On the basis of test data - Calculation Method - Bridging Principle "Substantially simi- lar mixtures" - Expert Judgement
Revision Date: Disclaimer:	19.02.2025 The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be de- duced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of pro- cessing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no sig-

### Abbreviations and acronyms:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS -Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

