

## 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.

#### 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  
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**1.4 Emergency telephone number:** +49 (0) 6131 / 19240 (Giftinformationszentrum Mainz)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

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

##### Health Hazards

Serious eye irritation  
Aspiration Hazard

Category 2  
Category 1

H319: Causes serious eye irritation.  
H304: May be fatal if swallowed and enters airways.

##### Hazard summary

##### Physical Hazards:

Can form flammable vapour-air mixtures during the application.

##### Health Hazards

##### Skin Contact:

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

##### Ingestion:

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

**Product name:** Rivolta K.S.P.

## 2.2 Label Elements

**Contains:** Hydrocarbons, low viscous



**Signal Words:** Danger

**Hazard Statement(s):** H304: May be fatal if swallowed and enters airways.  
H319: Causes serious eye irritation.

### Precautionary Statement

**Prevention:** P280: Wear eye protection/face protection.

**Response:** P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
P331: Do NOT induce vomiting.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Supplemental label information

EUH066: Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards:** 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**General information:** Mixture based on severely refined mineral base oils with corrosion preventive agents and volatile hydrocarbons.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Hydrocarbons, low viscous	EC: 918-167-1	50,00 - <100,00%	01-2119472146-39	
imidazole derivative	EINECS: 306-116-0	1,00 - <3,00%		
Oleic acid derivative	EINECS: 203-749-3	1,00 - <3,00%	01-2119488991-20	
Ca Sulfonate	EINECS: 260-991-2	1,00 - <5,00%	01-2119980985-16	
N-tallow-1,3-diaminopropane	EINECS: 263-189-0	0,10 - <1,00%		

**Product name:** Rivolta K.S.P.

\* 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
Hydrocarbons, low viscous	EC: 918-167-1	CLP: Asp. Tox. 1;H304
imidazole derivative	EINECS: 306-116-0	CLP: Eye Dam. 1;H318, Skin Irrit. 2;H315
Oleic acid derivative	EINECS: 203-749-3	CLP: Eye Dam. 1;H318, Aquatic Acute 1;H400, Acute Tox. 4;H332, Skin Irrit. 2;H315
Ca Sulfonate	EINECS: 260-991-2	CLP: Eye Irrit. 2;H319, Skin Irrit. 2;H315
N-tallow-1,3-diaminopropane	EINECS: 263-189-0	CLP: Eye Dam. 1;H318, Skin Irrit. 2;H315, Aquatic Acute 1;H400

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

## 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:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** Wash with water and soap; pay attention: skin degreasing product.

**Ingestion:** Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed:** Causes serious eye irritation. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. Headache.

**4.3 Indication of any immediate medical attention and special treatment needed** Get medical attention if symptoms occur.

## SECTION 5: Firefighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool.

### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, 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.

**Product name:** Rivolta K.S.P.

<b>5.2 Special hazards arising from the substance or mixture:</b>	Can form explosive vapor-air mixtures at higher temperatures.
<b>5.3 Advice for firefighters</b>	
<b>Special fire fighting procedures:</b>	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.
<b>Special protective equipment for fire-fighters:</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	In case of spills, beware of slippery floors and surfaces. Keep away from sources of ignition - No smoking.
<b>6.2 Environmental Precautions:</b>	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.
<b>6.3 Methods and material for containment and cleaning up:</b>	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.
<b>6.4 Reference to other sections:</b>	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.
	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

#### SECTION 7: Handling and storage:

<b>7.1 Precautions for safe handling:</b>	Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Use only in well-ventilated areas. Risk of vapor concentration on the floor and in low-lying areas. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Store locked up. Local regulations concerning handling and storage of waterpolluting products have to be followed. The precautions for storing and handling of flammable liquids have to be kept. Local regulations for common storage of flammable liquids have to be followed.
<b>7.3 Specific end use(s):</b>	not applicable
<b>Storage Class:</b>	10, Combustible liquids

**Product name:** Rivolta K.S.P.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Hydrocarbons, low viscous	AGW	600 mg/m <sup>3</sup>	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)

### 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 equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

##### Eye/face protection:

Safety glasses (EN 166) recommended during refilling.

##### Skin protection

##### Hand Protection:

Material: Nitrile butyl rubber (NBR).  
Min. Breakthrough time:  $\geq 480$  min  
Recommended thickness of the material:  $\geq 0,38$  mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### Other:

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

##### Respiratory Protection:

Do not breathe dust/fume/gas/mist/vapors/spray. Provide adequate ventilation. In case of inadequate ventilation wear respiratory protection. Filter A/P2.

##### 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 footwear that cannot be cleaned.

##### Environmental Controls:

No data available.

**Product name:** Rivolta K.S.P.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Amber
<b>Odor:</b>	Slight
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	not applicable
<b>Freezing point:</b>	Not applicable for mixtures
<b>Boiling Point:</b>	Value not relevant for classification
<b>Flash Point:</b>	> 60 °C (DIN EN ISO 2719)
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	Value not relevant for classification
<b>Flammability Limit - Upper (%)—:</b>	Not applicable for mixtures
<b>Flammability Limit - Lower (%)—:</b>	Not applicable for mixtures
<b>Vapor pressure:</b>	Not applicable for mixtures
<b>Vapor density (air=1):</b>	Not applicable for mixtures
<b>Density:</b>	0,80 g/cm <sup>3</sup> (15 °C) (DIN 51757)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	The product is insoluble in water.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Autoignition Temperature:</b>	Value not relevant for classification
<b>Decomposition Temperature:</b>	Value not relevant for classification
<b>Kinematic viscosity:</b>	4,1 mm <sup>2</sup> /s (20 °C, DIN 51562)
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification

### 9.2 Other information

<b>Minimum ignition temperature:</b>	265 °C (DIN 51794)
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## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Stable under normal use conditions.
<b>10.2 Chemical Stability:</b>	Stable under normal use conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Stable under normal use conditions.
<b>10.4 Conditions to avoid:</b>	Stable under normal use conditions.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing substances. Strong acids. Strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

**Product name:** Rivolta K.S.P.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	Causes eye irritation.

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Oral

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
Hydrocarbons, low viscous	LD 50 (Rat): > 5.001 mg/kg (OECD 401)
Oleic acid derivative	LD 50 (Rat): 9.200 mg/kg
N-tallow-1,3-diaminopropane	LD 50 (Rat): 945 mg/kg

##### Dermal

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
Hydrocarbons, low viscous	LD 50 (Rabbit): > 5.001 mg/kg (OECD 402)

##### Inhalation

<b>Product:</b>	ATEmix: 136,95 mg/l Dusts, mists and fumes
<b>Specified substance(s)</b>	
Hydrocarbons, low viscous	LC 50 (Rat, 4 h): > 5 mg/l (OECD 403)
Oleic acid derivative	LC 50 (Rat, 4 h): 1,37 mg/l Dusts, mists and fumes

##### Skin Corrosion/Irritation:

<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Specified substance(s)</b>	
Hydrocarbons, low viscous	Repeated exposure may cause skin dryness or cracking.
Oleic acid derivative	OECD 404 (Rabbit): Irritating.

**Product name:** Rivolta K.S.P.

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**Serious Eye Damage/Eye Irritation:**

**Product:** Based on available data, the classification criteria are met.

**Specified substance(s)**

Hydrocarbons, low viscous Based on available data, the classification criteria are not met.

**Respiratory or Skin Sensitization:**

**Product:** Skin sensitizer: Based on available data, the classification criteria are not met.

Respiratory sensitizer: Based on available data, the classification criteria are not met.

**Specified substance(s)**

Hydrocarbons, low viscous Based on available data, the classification criteria are not met.

Oleic acid derivative  
No sensitizing effect (guinea pig); OECD 406

**Germ Cell Mutagenicity**

**Product:** Based on available data, the classification criteria are not met.

**In vitro**

**Specified substance(s)**

Hydrocarbons, low viscous Based on available data, the classification criteria are not met.

**In vivo**

**Specified substance(s)**

Hydrocarbons, low viscous Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**

Hydrocarbons, low viscous Based on available data, the classification criteria are not met.

**Reproductive toxicity**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**

Hydrocarbons, low viscous 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.

**Specified substance(s)**

Hydrocarbons, low viscous Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**

Hydrocarbons, low viscous Based on available data, the classification criteria are not met.

**Aspiration Hazard**



**Product name:** Rivolta K.S.P.

**Product:** May be fatal if swallowed and enters airways.

**Specified substance(s)**

Hydrocarbons, low viscous May be fatal if swallowed and enters airways.

**Other Adverse Effects:** No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Acute toxicity**

**Product:** Based on available data, the classification criteria are not met.

**Fish**

**Specified substance(s)**

Hydrocarbons, low viscous LC 50 (Fish, 96 h): > 1.000 mg/l (OECD 203)

Oleic acid derivative LC 50 (Fish, 96 h): 3,2 - 4,6 mg/l

**Aquatic Invertebrates**

**Specified substance(s)**

Hydrocarbons, low viscous EC 50 (Water Flea, 48 h): > 1.000 mg/l (OECD 202)

Oleic acid derivative EC 50 (Water Flea, 48 h): 0,53 mg/l

**Chronic ToxicityProduct:** Based on available data, the classification criteria are not met.

**Aquatic Invertebrates**

**Specified substance(s)**

Hydrocarbons, low viscous NOEC (Water Flea, 21 d): > 1 mg/l (OECD 211)

**Toxicity to Aquatic Plants**

**Specified substance(s)**

Hydrocarbons, low viscous EC 50 (Alga, 72 h): > 1.000 mg/l (OECD 201)

Oleic acid derivative EC 50 (Alga, 72 h): 5,1 mg/l

### 12.2 Persistence and Degradability

**Biodegradation**

**Product:** Not applicable for mixtures

**Specified substance(s)**

Hydrocarbons, low viscous (OECD 301F) The product is not readily biodegradable.

Oleic acid derivative 85 % (28 d, OECD 301B)

### 12.3 Bioaccumulative Potential

**Product:** Not applicable for mixtures

**Product name:** Rivolta K.S.P.

**Specified substance(s)**

Hydrocarbons, low viscous      not applicable

**12.4 Mobility in Soil:**

**Product:** Not applicable for mixtures

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

The product does not contain any substances fulfilling the PBT/vPvB criteria.

**12.6 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:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**European Waste Codes**

13 02 08\*: other engine, gear and lubricating oils

**SECTION 14: Transport information**

**ADR/RID**

14.1 UN 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: —  
 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: —

**Product name:** Rivolta K.S.P.

#### **IATA**

14.1 UN Number:	–
14.2 Proper Shipping Name:	–
14.3 Transport Hazard Class(es):	
Class:	Non-dangerous goods
Label(s):	–
14.4 Packing Group:	–
14.5 Environmental hazards:	–
14.6 Special precautions for user:	–

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** not applicable.

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

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

###### **EU Regulations**

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

###### **National Regulations**

**Water Hazard Class (WGK):** WGK 1: slightly water-endangering.

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

#### **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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.

**Other information:** The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

**Revision Date:** 08.07.2016

**Product name:** Rivolta K.S.P.

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**Disclaimer:**

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 deduced 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 processing, 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 signature.