

## 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. 204

#### 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  
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**Contact Person:**  
E-mail: Bremer & Leguil GmbH - Product Safety Management  
product-safety-management@bremer-leguil.de

**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

Aspiration Hazard	Category 1	H304: May be fatal if swallowed and enters airways.
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##### Environmental Hazards

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.
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##### Hazard summary

**Physical Hazards:** Can form flammable vapour-air mixtures during the application. 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.

#### 2.2 Label Elements

**Product name:** Rivolta K.S.P. 204

**Contains:** Hydrocarbons, low viscosity



**Signal Words:** Danger

**Hazard Statement(s):** H304: May be fatal if swallowed and enters airways.  
H412: Harmful to aquatic life with long lasting effects.

#### Precautionary Statements

**Prevention:** P273: Avoid release to the environment.

**Response:** P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
P331: Do NOT induce vomiting.

**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 viscosity	EINECS: 920-901-0	25,00 - <50,00%	01-2119456810-40	
Alkyl benzol, low viscosity	EINECS: 284-660-7	20,00 - <25,00%	01-2119485843-26	
Na sulphonate	EINECS: 271-781-5	1,00 - <5,00%		
phenolic antioxidant	EINECS: 204-881-4	0,10 - <1,00%	01-2119565113-46	

\* 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.

**Product name:** Rivolta K.S.P. 204

## Classification

Chemical name	Identifier	Classification
Hydrocarbons, low viscosity	EINECS: 920-901-0	CLP: Asp. Tox. 1;H304
Alkyl benzol, low viscosity	EINECS: 284-660-7	CLP: Asp. Tox. 1;H304
Na sulphonate	EINECS: 271-781-5	CLP: Eye Irrit. 2;H319
phenolic antioxidant	EINECS: 204-881-4	CLP: Aquatic Acute 1;H400, Aquatic Chronic 1;H410

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases 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 Note L of Annex VI of Regulation EC 1272/2008."

## SECTION 4: First aid measures

**General:** Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into clothing pockets.

### 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 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.

**4.2 Most important symptoms and effects, both acute and delayed:** 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. 204

**5.2 Special hazards arising from the substance or mixture:** Can form explosive vapor-air mixtures at higher temperatures.

**5.3 Advice for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:** In case of spills, beware of slippery floors and surfaces. Keep away from sources of ignition - No smoking.

**6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers).

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

**6.4 Reference to other sections:** 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 handling:** Use only in well-ventilated areas. Risk of vapor concentration on the floor and in low-lying areas.

**7.2 Conditions for safe storage, including any incompatibilities:** 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. Prevent formation of aerosols. Do not heat up to temperatures close to the flash point.

**7.3 Specific end use(s):** not applicable

**Storage Class:** 10, Combustible liquids

**SECTION 8: Exposure controls/personal protection**

**8.1 Control Parameters**

**Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
Hydrocarbons, low viscosity	AGW	600 mg/m <sup>3</sup>	Germany. TRGS 900, Occupational Exposure Limits (AGW)

**Product name:** Rivolta K.S.P. 204

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## 8.2 Exposure controls

**Appropriate engineering controls:** No data available.

### 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).  
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:** In case of insufficient ventilation, wear suitable respiratory equipment. Seek advice from local supervisor.

**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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state:** liquid

**Form:** liquid

**Color:** Yellow

**Odor:** Characteristic

**Odor Threshold:** Not applicable for mixtures

**pH:** not applicable

**Freezing point:** Not applicable for mixtures

**Boiling Point:** not applicable

**Flash Point:** 70 °C

**Evaporation Rate:** Not applicable for mixtures

**Product name:** Rivolta K.S.P. 204

<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>	0,84 g/ml (15,00 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	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>	9,1 mm <sup>2</sup> /s (20,00 °C)
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification
<b>9.2 Other information</b>	No data available.

#### SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Stable under normal temperature conditions and recommended use.
<b>10.2 Chemical Stability:</b>	No data available.
<b>10.3 Possibility of hazardous reactions:</b>	None under normal conditions.
<b>10.4 Conditions to avoid:</b>	Avoid heat or contamination.
<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.

#### SECTION 11: Toxicological information

##### 11.1 Information on toxicological effects

###### Acute toxicity

###### Oral

###### Product:

Not classified for acute toxicity based on available data.

###### Specified substance(s)

Hydrocarbons, low viscosity

LD 50 (Rat): > 10.000 mg/kg

Alkyl benzol, low viscosity

LD 50 (Rat): > 2.001 mg/kg

phenolic antioxidant

LD 50 (Rat): 2.930 mg/kg (OECD 401)

**Product name:** Rivolta K.S.P. 204

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**Dermal**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Hydrocarbons, low viscosity

LD 50 (Rabbit): > 3.160 mg/kg

Alkyl benzol, low viscosity

LD 50 (Rat): > 3.600 mg/kg

phenolic antioxidant

LD 50 (Rat): > 5.000 mg/kg (OECD 402)

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Hydrocarbons, low viscosity

LC 50 (Rat, 4 h): > 5 mg/l

**Skin Corrosion/Irritation:**

**Product:**

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

**Serious Eye Damage/Eye Irritation:**

**Product:**

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)**

Alkyl benzol, low viscosity

No sensitizing effect (guinea pig); OECD 406

phenolic antioxidant

No sensitizing effect (guinea pig); OECD 406

**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 Toxicity - Repeated Exposure**

**Product:**

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

**Aspiration Hazard**

**Product:**

May be fatal if swallowed and enters airways.

**Product name:** Rivolta K.S.P. 204

**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 viscosity LC 50 (Fish, 96 h): > 101 mg/l

Alkyl benzol, low viscosity LC 50 (Fish, 96 h): > 10.000 mg/l

phenolic antioxidant LC 50 (Fish, 96 h): > 0,57 mg/l (OECD 203)

#### Aquatic Invertebrates

##### Specified substance(s)

phenolic antioxidant EC 50 (Water Flea, 48 h): > 0,17 mg/l

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

#### Aquatic Invertebrates

##### Specified substance(s)

phenolic antioxidant NOEC (Water Flea, 21 d): > 0,39 mg/l

#### Toxicity to Aquatic Plants

##### Specified substance(s)

phenolic antioxidant EC 50 (Alga, 72 h): > 0,42 mg/l

### 12.2 Persistence and Degradability

#### Biodegradation

**Product:** Not applicable for mixtures

##### Specified substance(s)

Hydrocarbons, low viscosity 31 % (28 d, OECD 301F) Not readily degradable.

phenolic antioxidant 30 % (OECD 302C)

### 12.3 Bioaccumulative potential

**Product:** Not applicable for mixtures

##### Specified substance(s)

phenolic antioxidant May be accumulated in organism

### 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.



**Product name:** Rivolta K.S.P. 204

**12.6 Other adverse effects:** Harmful to aquatic life with long lasting effects.

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

07 06 04\*: other organic solvents, washing liquids and mother liquors

## 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: —

### ADN

14.1 UN Number: —

14.2 UN Proper Shipping Name: —

14.3 Transport Hazard Class(es)  
Class: Non-dangerous goods  
Label(s): —

14.3 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. 204

#### 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 MARPOL 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. 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.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Training information:** Follow training instructions when handling this material.

**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:** 28.04.2017

**Product name:** Rivolta K.S.P. 204

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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.