

# 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. 305 R Spray

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

Bremer & Leguil GmbH Mexico Distributor Manufacturer / Supplier

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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.

**Physical Hazards** 

Aerosols Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

**Hazard summary** 

**Physical Hazards:** Flammable aerosol.

**Health Hazards** 

At long or repeated contact with skin it may cause dermatitis due to the **Skin Contact:** 

degreasing effect of the solvent.

### 2.2 Label Elements

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Signal Words: Danger

**Hazard Statement(s):** H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

**Precautionary Statements** 

**General information:** P102: Keep out of reach of children.

**Prevention:** 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.

**Storage:** P410+P412: Protect from sunlight. Do no expose to temperatures

exceeding 50 °C/122°F.

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 of components with propellant in aerosol can.

Chemical name	Identifier		REACH Registration No.	Notes
Propane	EINECS: 200-827-9	0,00 - <=100,00%	01-2119486944-21	
Butane	EINECS: 203-448-7	0,00 - <=100,00%	01-2119474691-32	
Isobutane (<0,1% 1,3-butadiene)	EINECS: 200-857-2	0,00 - <=100,00%	01-2119485395-27	
Hydrocarbons, low viscous	EC: 918-167-1	1,00 - <5,00%	01-2119472146-39	

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

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vPvB: very persistent and very bioaccumulative substance.



#### Classification

Chemical name	Identifier	Classification	
Propane	EINECS: 200-827-9	CLP:	Flam. Gas 1;H220, Press. Gas H280
Butane	EINECS: 203-448-7	CLP:	Flam. Gas 1;H220, Press. Gas H280
Isobutane (<0,1% 1,3-butadiene)	EINECS: 200-857-2	CLP:	Flam. Gas 1;H220, Press. Gas Liq. Gas;H280
Hydrocarbons, low viscous	EC: 918-167-1		Flam. Liq. 3;H226, Asp. Tox. 1;H304, Aquatic Chronic 4;H413

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements 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.

**Eve 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:

Dizziness Freeze burns

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing

media:

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

mixture:

Danger of explosion with aerosol cans.

5.3 Advice for firefighters

Special fire fighting procedures:

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.

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**Special protective** Self-contained breathing apparatus and full protective clothing must be

equipment for fire-fighters: worn in case of fire.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:

Keep away from sources of ignition - No smoking.

**6.2 Environmental Precautions:** 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:

Scrape up spillage or absorb with absorbing material. Stop the flow of material, if this is without risk. Dispose of the material collected according to

regulations.

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:

Avoid contact with flame and heat source, prevent contact with direct

sunlight Use only in well-ventilated areas.

7.2 Conditions for safe storage,

including any incompatibilities:

Local regulations concerning handling and storage of waterpolluting products have to be followed. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Local regulations for the storage and handling of aerosol

cans and flammable liquids have to be kept. Keep away from

heat/sparks/hot surfaces. - No smoking.

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

Storage Class: 2 B, Aerosols

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

### 8.1 Control Parameters

**Occupational Exposure Limits** 

occupational Exposure Ellinto						
Chemical name	Туре	Exposure Limit Values	Source			
Butane	AGW	1.000 ppm 2.400 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW) (01 2012)			
Propane	AGW	1.000 ppm 1.800 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW) (01 2012)			
Hydrocarbons, low viscous	AGW	600 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)			

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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 inhered the chamicals or the mineral sile products.

be adhered to inhandling the chemicals or the mineral oil products.

**Eye/face protection:** Goggles/face shield are recommended.

Skin protection

Hand Protection: Material: Nitrile-butadiene 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 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/vapours/spray. Provide adequate

ventilation. In case of inadequate ventilation wear respiratory protection.

Filter AX/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.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: Aerosols
Form: Aerosols
Color: Red
Odor: Slight

Odor Threshold: Not applicable for mixtures

pH: Not applicable

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Freezing point: Not applicable for mixtures

**Boiling Point:**Value not relevant for classification **Flash Point:**< -60 °C (DIN EN ISO 2719) **Evaporation Rate:**Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)—:

Flammability Limit - Lower (%)—:

Vapor pressure:

Vapor density (air=1):

Density:

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

O,82 g/cm3 (15 °C) (DIN 51757)

Solubility(ies)

**Solubility in Water:** The product is insoluble in water.

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature:Value not relevant for classificationDecomposition Temperature:Value not relevant for classificationKinematic viscosity:> 20,5 mm2/s (40 °C, DIN 51562)Explosive properties:Value not relevant for classificationOxidizing properties:Value not relevant for classification

9.2 Other information

Minimum ignition temperature: 265 °C (DIN 51794)

### **SECTION 10: Stability and reactivity**

**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** Thermal decomposition or combustion may liberate carbon oxides and

**Products:** 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.

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Specified substance(s)

Hydrocarbons, low

viscous

LD 50 (Rat): > 5.000 mg/kg (OECD 401)

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low

viscous

LD 50 (Rabbit): 3.160 mg/kg (OECD 402)

Inhalation

**Product:** 

Not classified for acute toxicity based on available data.

Specified substance(s)

Butane

LC 50 (Rat, 4 h): 658 mg/l

Gas

**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.

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

Other adverse effects: No data available.

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### **SECTION 12: Ecological information**

### 12.1 Toxicity

**Acute toxicity** 

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

Fish

Specified substance(s)

Isobutane (<0,1% 1,3-

butadiene)

LC 50 (Fish, 96 h): 28 mg/l

Hydrocarbons, low

viscous

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

Aquatic Invertebrates Specified substance(s)

Isobutane (<0,1% 1,3-

butadiene)

EC 50 (Water Flea, 48 h): 16,3 mg/l

Hydrocarbons, low

viscous

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

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

Toxicity to Aquatic Plants Specified substance(s)

Isobutane (<0,1% 1,3-

butadiene)

EC 50 (Alga, 72 h): 8,6 mg/l

Hydrocarbons, low

viscous

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

### 12.2 Persistence and Degradability

**Biodegradation** 

**Product:** Not applicable for mixtures

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 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.

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### **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** 

16 05 04\*: Gases in pressure containers (including halons) containing

dangerous substances.

## **SECTION 14: Transport information**

#### ADR/RID

UN 1950 14.1 UN Number: 14.2 UN Proper Shipping Name: **AEROSOLS** 

14.3 Transport Hazard Class(es)

2 Class: Label(s): 2.1 Hazard No. (ADR): Tunnel restriction code: (D) 14.4 Packing Group:

14.5 Environmental hazards:

14.6 Special precautions for user:

### **ADN**

14.1 UN Number: UN 1950 14.2 UN Proper Shipping Name: **AEROSOLS** 

14.3 Transport Hazard Class(es)

Class: 2 2.1 Label(s): 14.3 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user:

### **IMDG**

14.1 UN Number: UN 1950 14.2 UN Proper Shipping Name: **AEROSOLS** 

14.3 Transport Hazard Class(es)

Class: 2.1 Label(s): 2.1 EmS No.: F-D, S-U

14.3 Packing Group:

14.5 Environmental hazards: 14.6 Special precautions for user:

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**IATA** 

14.1 UN Number: UN 1950

14.2 Proper Shipping Name: Aerosols, flammable

14.3 Transport Hazard Class(es):

Class: 2.1
Label(s): 2.1

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.

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

H220 Extremely flammable gas.
 H222 Extremely flammable aerosol.
 H226 Flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

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. It was derived from the test data and/or the

application of the conventional method.

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Disclaimer:

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