

## 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 S.K.D. 2000 Spray

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Lubricating oil

**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

**Contact Person:** Bremer & Leguil GmbH - Product Safety Management  
**E-mail:** 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 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.<br>H229: Pressurized container: May burst if heated. |
|----------|------------|---|

##### Health Hazards

|                 |            |                               |
|-----------------|------------|-------------------------------|
| Skin irritation | Category 2 | H315: Causes skin irritation. |
|-----------------|------------|-------------------------------|

##### Environmental Hazards

|  |            |  |
|--|------------|--|
| Chronic hazards to the aquatic environment | Category 3 | H412: Harmful to aquatic life with long lasting effects. |
|--|------------|--|

#### Hazard summary

**Physical Hazards:** Flammable aerosol.

#### 2.2 Label Elements

**Product name:** Rivolta S.K.D. 2000 Spray

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**Signal Words:** Danger

**Hazard Statement(s):** H222: Extremely flammable aerosol.  
H229: Pressurized container: May burst if heated.  
H315: Causes skin irritation.  
H412: Harmful to aquatic life with long lasting effects.

#### 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.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Storage:** P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

**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.

#### 2.3 Information on 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.

#### Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**General information:** Mixture of components with propellant in aerosol can.

**Product name:** Rivolta S.K.D. 2000 Spray

| Chemical name                   | Identifier        | Concentration *  | REACH Registration No. | Notes |
|---------------------------------|-------------------|------------------|------------------------|-------|
| Propane                         | EINECS: 200-827-9 | 0% - <100,00%    | 01-2119486944-21       |       |
| Butane                          | EINECS: 203-448-7 | 0% - <100,00%    | 01-2119474691-32       |       |
| Isobutane (<0,1% 1,3-butadiene) | EINECS: 200-857-2 | 0% - <100,00%    | 01-2119485395-27       |       |
| Hydrocarbons, low viscous       | EINECS: 265-151-9 | 10,00% - <20,00% | 01-2119475514-35       |       |

\* 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 |   |
|---------------------------------|-------------------|----------------|---|
| Propane                         | EINECS: 200-827-9 | CLP:           | Flam. Gas 1A;H220, Press. Gas Compr. Gas;H280   |
| Butane                          | EINECS: 203-448-7 | CLP:           | Flam. Gas 1A;H220, Press. Gas Compr. Gas;H280   |
| Isobutane (<0,1% 1,3-butadiene) | EINECS: 200-857-2 | CLP:           | Flam. Gas 1A;H220, Press. Gas Compr. Gas;H280   |
| Hydrocarbons, low viscous       | EINECS: 265-151-9 | CLP:           | Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Aquatic Chronic 2;H411 |

CLP: Regulation No. 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:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

**Ingestion:** Rinse mouth. Call a POISON CENTER or doctor/ physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed:** Causes skin irritation. Dizziness Freeze burns Causes skin irritation. Dizziness Freeze burns

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

## SECTION 5: Firefighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

### 5.1 Extinguishing media

**Product name:** Rivolta S.K.D. 2000 Spray

|   |   |
|---|---|
| <b>Suitable extinguishing media:</b>                              | 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   |
| <b>Unsuitable extinguishing media:</b>                            | Water with a full water jet.  |
| <b>5.2 Special hazards arising from the substance or mixture:</b> | Danger of explosion with aerosol cans.  |
| <b>5.3 Advice for firefighters</b>                                |   |
| <b>Special fire-fighting procedures:</b>                          | Use fire fighting measures that suit the environment. Move container from fire area if it can be done without risk. 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>            | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.  |

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

|   |  |
|---|--|
| <b>6.1 Personal precautions, protective equipment and emergency procedures:</b> | Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Keep away from sources of ignition - No smoking.   |
| <b>6.2 Environmental Precautions:</b>   | Avoid release to the environment. Prevent further leakage or spillage if safe to do so.  |
| <b>6.3 Methods and material for containment and cleaning up:</b>                | 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.  |
| <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.<br><br>ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. |

**Product name:** Rivolta S.K.D. 2000 Spray

## SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Avoid contact with skin. Wash hands thoroughly after 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:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Local regulations concerning handling and storage of waterpolluting products have to be followed. 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

| Chemical name             | Type | Exposure Limit Values             | Source  |
|---------------------------|------|-----------------------------------|---|
| Butane                    | AGW  | 1.000 ppm 2.400 mg/m <sup>3</sup> | Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012) |
| Hydrocarbons, low viscous | AGW  | 600 mg/m <sup>3</sup>             | Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended           |
| Propane                   | AGW  | 1.000 ppm 1.800 mg/m <sup>3</sup> | Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012) |

### 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:** Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

**Product name:** Rivolta S.K.D. 2000 Spray

**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 AX/P2.

**Thermal hazards:**

No decomposition if used according to specifications.

**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**

|   |   |
|---|---|
| <b>Physical state:</b>                          | Aerosols                                    |
| <b>Form:</b>                                    | Aerosols                                    |
| <b>Color:</b>                                   | Red brown                                   |
| <b>Odor:</b>                                    | Slight                                      |
| <b>pH:</b>                                      | substance/mixture is non-soluble (in water) |
| <b>Freezing point:</b>                          | not determined                              |
| <b>Boiling Point:</b>                           | not determined                              |
| <b>Flash Point:</b>                             | $< -60$ °C (DIN EN ISO 2719)                |
| <b>Evaporation Rate:</b>                        | Not applicable for mixtures                 |
| <b>Flammability (solid, gas):</b>               | not determined                              |
| <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>Relative vapor density:</b>                  | Not applicable for mixtures                 |
| <b>Density:</b>                                 | 0,94 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>                | not determined                              |

**Product name:** Rivolta S.K.D. 2000 Spray

|                                   |   |
|-----------------------------------|---|
| <b>Decomposition Temperature:</b> | not determined                              |
| <b>Kinematic viscosity:</b>       | 4.000 mm <sup>2</sup> /s (40 °C, DIN 51562) |
| <b>Explosive properties:</b>      | Value not relevant for classification       |
| <b>Oxidizing properties:</b>      | Value not relevant for classification       |
| <b>Particle characteristics:</b>  | Not applicable                              |
| <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. Stable under normal use conditions. |
| <b>10.2 Chemical Stability:</b>                 | Material is stable under normal conditions. Stable under normal use conditions.                     |
| <b>10.3 Possibility of hazardous reactions:</b> | None under normal conditions. 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.     |

#### 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> | Causes skin irritation. |
| <b>Eye contact:</b>  | No data available.      |

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

###### Acute toxicity

###### Oral

|                 |  |
|-----------------|--|
| <b>Product:</b> | Not classified for acute toxicity based on available data. |
|-----------------|--|

###### Dermal

|                 |  |
|-----------------|--|
| <b>Product:</b> | Not classified for acute toxicity based on available data. |
|-----------------|--|

**Product name:** Rivolta S.K.D. 2000 Spray

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**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 met.

**Specified substance(s)**

Hydrocarbons, low vis-  
cous Irritating to skin.

**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.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Product name:** Rivolta S.K.D. 2000 Spray

|   |
|---|
| <b>SECTION 12: Ecological information</b> |
|---|

### 12.1 Toxicity

**Acute toxicity**

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

**Fish**

**Specified substance(s)**

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

Isobutane (<0,1% 1,3-butadiene) LC 50 (Fish, 96 h): 28 mg/l

**Aquatic Invertebrates**

**Specified substance(s)**

Isobutane (<0,1% 1,3-butadiene) EC 50 (Water Flea, 48 h): 16,3 mg/l

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

**Toxicity to Aquatic Plants**

**Specified substance(s)**

Isobutane (<0,1% 1,3-butadiene) EC 50 (Alga, 72 h): 8,6 mg/l

### 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 Endocrine disrupting properties

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

**Water Hazard Class (WGK):** WGK 2: significantly water-endangering.

**Product name:** Rivolta S.K.D. 2000 Spray

### 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

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

### SECTION 14: Transport information

#### ADR/RID

|                                    |          |
|------------------------------------|----------|
| 14.1 UN number or ID number:       | UN 1950  |
| 14.2 UN Proper Shipping Name:      | AEROSOLS |
| 14.3 Transport Hazard Class(es)    |          |
| Class:                             | 2        |
| 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: | –        |

#### IMDG

|                                    |          |
|------------------------------------|----------|
| 14.1 UN number or ID 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: | –        |

#### IATA

|                                    |                     |
|------------------------------------|---------------------|
| 14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments:** Not applicable.

**Product name:** Rivolta S.K.D. 2000 Spray

## SECTION 15: Regulatory information

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

#### EU Regulations

**EU. Regulation 1005/2009/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

#### National Regulations

**Water Hazard Class (WGK):** WGK 2: significantly 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.                        |
| H225 | Highly flammable liquid and vapor.                  |
| H229 | Pressurized container: May burst if heated.         |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways.       |
| H315 | Causes skin irritation.                             |
| H336 | May cause drowsiness or dizziness.                  |
| H411 | Toxic to aquatic life with long lasting effects.    |
| H412 | Harmful to aquatic life with long lasting effects.  |

**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 similar mixtures" - Expert Judgement

**Revision Date:** 02.12.2022

**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.