

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. 170 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
info@bremer-leguil.de
www.bremer-leguil.de

US Distributor

Fuchs Lubricants Co.
17050 Lathrop Avenue
Harvey, IL 60426
(708) 333-8900
(800) 255-3924 24 hrs Emergency

Telephone:

+49 (0)203 / 9923-0

Fax:

+49 (0)203 / 25901

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.

Physical Hazards

Flammable aerosol

Category 1

H222: Extremely flammable aerosol.
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.

Product name: Rivolta S.K.D. 170 Spray

2.2 Label Elements



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 Statement

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 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 | Concentration * | REACH Registration No. | Notes |
|---------------------------|-------------------|-----------------|------------------------|-------|
| 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.

Product name: Rivolta S.K.D. 170 Spray

Classification

| Chemical name | Identifier | Classification |
|---------------------------|-------------------|--|
| 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.

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

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: 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/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed: Causes skin irritation. 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

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

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

Product name: Rivolta S.K.D. 170 Spray

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| Special fire fighting procedures: | No data available. |
| Special protective equipment for fire-fighters: | 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

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| 6.1 Personal precautions, protective equipment and emergency procedures: | 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. |
| 6.2 Environmental Precautions: | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. |
| 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. 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. |

SECTION 7: Handling and storage:

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| 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 |

Product name: Rivolta S.K.D. 170 Spray

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/m3 | Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (01 2012) |
| Hydrocarbons, low viscous | AGW | 600 mg/m3 | Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace |
| Propane | AGW | 1.000 ppm 1.800 mg/m3 | Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (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:

Safety glasses (EN 166) recommended during refilling. Avoid contact with eyes.

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:

Seek advice from local supervisor. 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 footwear that cannot be cleaned.

Environmental Controls:

No data available.

Product name: Rivolta S.K.D. 170 Spray

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

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| Physical state: | Aerosols |
| Form: | Aerosols |
| Color: | Red brown |
| Odor: | Slight |
| Odor Threshold: | Not applicable for mixtures |
| pH: | not applicable |
| 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 (%)—: | Not applicable for mixtures |
| Flammability Limit - Lower (%)—: | Not applicable for mixtures |
| Vapor pressure: | Not applicable for mixtures |
| Vapor density (air=1): | Not applicable for mixtures |
| Density: | 0,94 g/cm ³ (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 classification |
| Decomposition Temperature: | Value not relevant for classification |
| Kinematic viscosity: | 430 mm ² /s (40 °C, DIN 51562) |
| Explosive properties: | Value not relevant for classification |
| Oxidizing properties: | Value not relevant for classification |

9.2 Other information

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| Minimum ignition temperature: | 400 °C (DIN 51794) |
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SECTION 10: Stability and reactivity

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| 10.1 Reactivity: | Stable under normal temperature conditions and recommended use. |
| 10.2 Chemical Stability: | No data available. |
| 10.3 Possibility of hazardous reactions: | None under normal conditions. |
| 10.4 Conditions to avoid: | Avoid heat or contamination. |
| 10.5 Incompatible Materials: | Strong oxidizing substances. Strong acids. Strong bases. |

Product name: Rivolta S.K.D. 170 Spray

10.6 Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

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| SECTION 11: Toxicological information |
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Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: Causes skin irritation.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)
Hydrocarbons, low viscous No data available.

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)
Hydrocarbons, low viscous No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)
Hydrocarbons, low viscous No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)
Hydrocarbons, low viscous No data available.

Skin Corrosion/Irritation:

Product: No data available.

Product name: Rivolta S.K.D. 170 Spray

Specified substance(s)

Hydrocarbons, low
viscous Irritating to skin.

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Hydrocarbons, low No data available.
viscous

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Hydrocarbons, low No data available.
viscous

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Hydrocarbons, low No data available.
viscous

In vivo

Product: No data available.

Specified substance(s)

Hydrocarbons, low No data available.
viscous

Carcinogenicity

Product: No data available.

Specified substance(s)

Hydrocarbons, low No data available.
viscous

Reproductive toxicity

Product: No data available.

Specified substance(s)

Hydrocarbons, low No data available.
viscous

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Hydrocarbons, low No data available.
viscous

Product name: Rivolta S.K.D. 170 Spray

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Hydrocarbons, low viscous No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Hydrocarbons, low viscous No data available.

Other Adverse Effects: No data available.

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| SECTION 12: Ecological information |
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12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Hydrocarbons, low viscous No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Hydrocarbons, low viscous No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Hydrocarbons, low viscous No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Hydrocarbons, low viscous No data available.

Toxicity to Aquatic Plants

Product name: Rivolta S.K.D. 170 Spray

Product: No data available.

Specified substance(s)
Hydrocarbons, low viscous No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)
Hydrocarbons, low viscous No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)
Hydrocarbons, low viscous No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Hydrocarbons, low viscous No data available.

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: Harmful to aquatic life with long lasting effects.

Water Hazard Class (WGK): WGK 2: 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

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

Product name: Rivolta S.K.D. 170 Spray

SECTION 14: Transport information

ADR/RID

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|------------------------------------|----------|
| 14.1 UN 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: | – |

ADN

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|------------------------------------|----------|
| 14.1 UN Number: | UN 1950 |
| 14.2 UN Proper Shipping Name: | AEROSOLS |
| 14.3 Transport Hazard Class(es) | |
| Class: | 2 |
| Label(s): | 2.1 |
| 14.3 Packing Group: | – |
| 14.5 Environmental hazards: | – |
| 14.6 Special precautions for user: | – |

IMDG

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|------------------------------------|----------|
| 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: | – |

IATA

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|------------------------------------|---------------------|
| 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 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

Product name: Rivolta S.K.D. 170 Spray

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 2: water-endangering.

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

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| SECTION 16: Other information |
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Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

| | |
|------|--|
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapor. |
| H229 | Pressurized container: May burst 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 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: 01.02.2016

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.