

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.M. 3010 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.
H229: Pressurized container: May burst if heated.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Contains: Isopropyl alcohol



Signal Words: Danger

Product name: Rivolta S.K.M. 3010 Spray

Hazard Statement(s): H222: Extremely flammable aerosol.
H229: Pressurized 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 not expose to temperatures exceeding 50 °C/122°F.

2.3 Information on other hazards 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.

| Chemical name | Identifier | Concentration * | REACH Registration No. | Notes |
|---------------------------------|-------------------|-----------------|------------------------|-------|
| Propane | EINECS: 200-827-9 | 0% - <50,00% | 01-2119486944-21 | |
| Butane | EINECS: 203-448-7 | 0% - <50,00% | 01-2119474691-32 | |
| Isobutane (<0,1% 1,3-butadiene) | EINECS: 200-857-2 | 0% - <50,00% | 01-2119485395-27 | |
| Isopropyl alcohol | EINECS: 200-661-7 | 1,00% - <5,00% | 01-2119457558-25 | |

* 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 |
| Isopropyl alcohol | EINECS: 200-661-7 | CLP: | Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336 |

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

Product name: Rivolta S.K.M. 3010 Spray

| | |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 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 soap and water. |
| Ingestion: | Rinse mouth thoroughly. |
| 4.2 Most important symptoms and effects, both acute and delayed: | May cause skin and eye irritation. |
| 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:

During fire, gases hazardous to health may be formed.

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 in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

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: 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.

Product name: Rivolta S.K.M. 3010 Spray

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: Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

7.2 Conditions for safe storage, including any incompatibilities: Local regulations concerning handling and storage of waterpolluting products have to be followed.

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 |
|---------------------------------|------|-----------------------------------|-----------------------------------------------------------------------------|
| Propane | AGW | 1.000 ppm 1.800 mg/m ³ | Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012) |
| Butane | AGW | 1.000 ppm 2.400 mg/m ³ | Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012) |
| Isobutane (<0,1% 1,3-butadiene) | AGW | 1.000 ppm 2.400 mg/m ³ | Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012) |
| Isopropyl alcohol | AGW | 200 ppm 500 mg/m ³ | Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012) |

Biological Limit Values

| Chemical name | Exposure Limit Values | Source |
|-----------------------------------------------------------|-----------------------|------------------|
| Isopropyl alcohol (acetone: Sampling time: End of shift.) | 25 mg/l (Blood) | DE BAT (09 2013) |
| Isopropyl alcohol (acetone: Sampling time: End of shift.) | 25 mg/l (Urine) | DE BAT (09 2013) |

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.

Product name: Rivolta S.K.M. 3010 Spray

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection: | Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield. |
| Skin protection | |
| Hand Protection: | Material: Nitrile butyl rubber (NBR). Min. Breakthrough time: ≥ 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: | 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: | Light brown |
| Odor: | Slight |
| pH: | substance/mixture is non-soluble (in water) |
| Freezing point: | not determined |
| Boiling Point: | not determined |
| Flash Point: | < -60 °C (DIN EN ISO 2719) |
| Evaporation Rate: | Not applicable for mixtures |
| Flammability (solid, gas): | not determined |
| Flammability Limit - Upper (%)—: | Not applicable for mixtures |
| Flammability Limit - Lower (%)—: | Not applicable for mixtures |
| Vapor pressure: | Not applicable for mixtures |
| Relative vapor density: | Not applicable for mixtures |
| Density: | 0,95 g/cm ³ (15 °C) (DIN 51757) |
| Solubility(ies) | |
| Solubility in Water: | The product is insoluble in water. |

Product name: Rivolta S.K.M. 3010 Spray

| | |
|-------------------------------------------------|----------------------------------------------|
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | Not applicable for mixtures |
| Autoignition Temperature: | not determined |
| Decomposition Temperature: | not determined |
| Kinematic viscosity: | 30.000 mm ² /s (40 °C, DIN 51562) |
| Explosive properties: | Value not relevant for classification |
| Oxidizing properties: | Value not relevant for classification |
| Particle characteristics: | Not applicable |
| 9.2 Other information | No data available. |

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

SECTION 11: Toxicological information

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

Acute toxicity

Oral

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

Specified substance(s)

Isopropyl alcohol LD 50 (Rat): 4.570 mg/kg

Dermal

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

Specified substance(s)

Isopropyl alcohol LD 50 (Rabbit): 13.400 mg/kg

Inhalation

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

Specified substance(s)

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

Isopropyl alcohol LC 50 (Rat, 4 h): 30 mg/l

Product name: Rivolta S.K.M. 3010 Spray

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.

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.

| |
|-------------------------------------------|
| SECTION 12: Ecological information |
|-------------------------------------------|

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 |
| Isopropyl alcohol | LC 50 (Fish, 96 h): 9.640 mg/l |

Product name: Rivolta S.K.M. 3010 Spray

Aquatic Invertebrates

Specified substance(s)

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

Isopropyl alcohol LC 50 (48 h): 1.400 mg/l

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

Isopropyl alcohol LC 50 (Alga, 72 h): > 100 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: 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: 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.

Product name: Rivolta S.K.M. 3010 Spray

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.

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

Product name: Rivolta S.K.M. 3010 Spray

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. |
| H225 | Highly flammable liquid and vapor. |
| H229 | Pressurized container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

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.