

## 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 T.R.S. Plus Spray S

#### 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  
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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.

##### Physical Hazards

Flammable aerosol

Category 1

H222: Extremely flammable aerosol.  
H229: Pressurized container: May burst if heated.

##### Health Hazards

Aspiration Hazard

Category 1

H304: May be fatal if swallowed and enters airways.

##### Hazard summary

##### Physical Hazards:

Flammable aerosol.

##### Health Hazards

##### Skin Contact:

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

**Product name:** Rivolta T.R.S. Plus Spray S

**Ingestion:** If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

## 2.2 Label Elements



**Signal Words:** Danger

**Hazard Statement(s):** H222: Extremely flammable aerosol.  
H229: Pressurized container: May burst if heated.

### 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.

**Storage:** P410+P412: Protect from sunlight. Do not 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	Concentration *	REACH Registration No.	Notes
Isoparaffines, low viscous	EC: 918-167-1	50,00 - <100,00%	01-2119472146-39	
Carbon dioxide	EINECS: 204-696-9	1,00 - <5,00%		

\* 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 T.R.S. Plus Spray S

## Classification

Chemical name	Identifier	Classification
Isoparaffines, low viscous	EC: 918-167-1	CLP: Flam. Liq. 3;H226, Asp. Tox. 1;H304
Carbon dioxide	EINECS: 204-696-9	CLP: Press. Gas H280

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases 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.

**Eye contact:** Promptly wash eyes with plenty of water while lifting the eye lids.

**Skin Contact:** Wash with soap and water. The product is not skin irritating.

**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. Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed:** If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. 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:** 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.

**5.2 Special hazards arising from the substance or mixture:** Danger of explosion with aerosol cans.

### 5.3 Advice for firefighters

**Product name:** Rivolta T.R.S. Plus Spray S

<b>Special fire fighting procedures:</b>	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. Keep away from sources of ignition - No smoking.
<b>6.2 Environmental Precautions:</b>	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.
<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.  ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

#### SECTION 7: Handling and storage:

<b>7.1 Precautions for safe handling:</b>	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 flame and heat source, prevent contact with direct sunlight Use only in well-ventilated areas.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Store locked up. 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.
<b>7.3 Specific end use(s):</b>	not applicable
<b>Storage Class:</b>	2 B, Aerosols

**Product name:** Rivolta T.R.S. Plus Spray S

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Isoparaffines, low viscous	AGW	600 mg/m <sup>3</sup>	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)
Carbon dioxide	AGW	5.000 ppm 9.100 mg/m <sup>3</sup>	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.

##### 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:

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 T.R.S. Plus Spray S

## 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>	Amber
<b>Odor:</b>	Slight
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	not applicable
<b>Freezing point:</b>	Not applicable for mixtures
<b>Boiling Point:</b>	175 °C
<b>Flash Point:</b>	> 60 °C (DIN EN ISO 2719)
<b>Evaporation Rate:</b>	Not applicable for mixtures
<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>	0,80 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>	Value not relevant for classification
<b>Decomposition Temperature:</b>	Value not relevant for classification
<b>Kinematic viscosity:</b>	3,5 mm <sup>2</sup> /s (20 °C, DIN 51562)
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification

### 9.2 Other information

<b>Minimum ignition temperature:</b>	265 °C (DIN 51794)
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## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Stable under normal use conditions.
<b>10.2 Chemical Stability:</b>	Stable under normal use conditions.
<b>10.3 Possibility of hazardous reactions:</b>	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.

**Product name:** Rivolta T.R.S. Plus Spray S

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<b>SECTION 11: Toxicological information</b>
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### 11.1 Information on toxicological effects

#### Acute toxicity

##### Oral

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

##### Dermal

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

##### Inhalation

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

##### Repeated dose toxicity

**Product:**

No data available.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

##### Skin Corrosion/Irritation:

**Product:**

No data available.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

##### Serious Eye Damage/Eye Irritation:

**Product:**

No data available.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

**Product name:** Rivolta T.R.S. Plus Spray S

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**Respiratory or Skin Sensitization:**

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous No data available.  
Carbon dioxide No data available.

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous No data available.  
Carbon dioxide No data available.

**In vivo**

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous No data available.  
Carbon dioxide No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous No data available.  
Carbon dioxide No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous No data available.  
Carbon dioxide No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous No data available.  
Carbon dioxide No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous No data available.  
Carbon dioxide No data available.

**Aspiration Hazard**

**Product:** May be fatal if swallowed and enters airways.

**Specified substance(s)**



**Product name:** Rivolta T.R.S. Plus Spray S

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Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

**Other Adverse Effects:** No data available.

<b>SECTION 12: Ecological information</b>
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### 12.1 Toxicity

#### Acute toxicity

##### Fish

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

##### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

#### Chronic Toxicity

##### Fish

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

##### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous	No data available.
Carbon dioxide	No data available.

### 12.2 Persistence and Degradability

#### Biodegradation

**Product:** No data available.

**Product name:** Rivolta T.R.S. Plus Spray S

**Specified substance(s)**

Isoparaffines, low viscous No data available.  
Carbon dioxide No data available.

**12.3 Bioaccumulative Potential**

**Product:** No data available.

**Specified substance(s)**

Isoparaffines, low viscous No data available.  
Carbon dioxide No data available.

**12.4 Mobility in Soil:**

No data available.

**Known or predicted distribution to environmental compartments**

Isoparaffines, low viscous No data available.  
Carbon dioxide 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:**

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:** 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.

**SECTION 14: Transport information**

**ADR/RID**

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: –

**Product name:** Rivolta T.R.S. Plus Spray S

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#### ADN

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

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

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.

<b>SECTION 15: Regulatory information</b>
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#### 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.

**Product name:** Rivolta T.R.S. Plus Spray S

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<b>SECTION 16: Other information</b>
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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.
H226	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.

**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:** 24.02.2016

**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.