

# 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.U.W. Spray

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

Identified uses: Solvent-based cleaner

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier Bremer & Leguil GmbH US Distributor

Am Burgacker 30 - 42
47051 Duisburg
info@bremer-leguil.de
www.bremer-leguil.de
+49 (0)203 / 9923-0

Fuchs Lubricants Co.

17050 Lathrop Avenue
Harvey, IL 60426

Telephone: +49 (0)203 / 9923-0 Fax: +49 (0)203 / 25901 (708) 333-8900

(800) 255-3924 24 hrs Emergency

Contact Person: Bremer & Leguil GmbH - Product Safety Management

E-mail: 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** 

Aerosols 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 air-

ways.

**Hazard summary** 

Physical Hazards: No data available.

**Health Hazards** 

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

degreasing effect of the solvent.

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**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 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.

Supplemental label information

EUH066: Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards:** 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
Propane	EINECS: 200-827-9	0% - <30,00%	01-2119486944-21	
Butane	EINECS: 203-448-7	0% - <30,00%	01-2119474691-32	
Isobutane (<0,1% 1,3-butadiene)	EINECS: 200-857-2	0% - <30,00%	01-2119485395-27	
Ethanol	EINECS: 200-578-6	20,00% - <50,00%	01-2119457610-43	
Cyclopentane	EINECS: 206-016-6	10,00% - <20,00%	01-2119463053-47	
Hydrocarbons, low viscosity	EINECS: 927-285-2	10,00% - <20,00%	01-2119480162-45	
Hydrocarbons, low viscosity	EINECS: 920-901-0	10,00% - <20,00%	01-2119456810-40	
Hydrocarbons, low viscous	EC: 918-167-1	5,00% - <10,00%	01-2119472146-39	
Isopropyl alcohol	EINECS: 200-661-7	1,00% - <5,00%	01-2119457558-25	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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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 H280
Butane	EINECS: 203-448-7	CLP:	Flam. Gas 1A;H220, Press. Gas H280
Isobutane (<0,1% 1,3-butadiene)	EINECS: 200-857-2	CLP:	Flam. Gas 1A;H220, Press. Gas H280
Ethanol	EINECS: 200-578-6	CLP:	Flam. Liq. 2;H225, Eye Irrit. 2;H319
Cyclopentane	EINECS: 206-016-6	CLP:	Flam. Liq. 2;H225, Aquatic Chronic 3;H412, Asp. Tox. 1;H304, STOT SE 3;H336
Hydrocarbons, low viscosity	EINECS: 927-285-2	CLP:	Asp. Tox. 1;H304
Hydrocarbons, low viscosity	EINECS: 920-901-0	CLP:	Asp. Tox. 1;H304
Hydrocarbons, low viscous	EC: 918-167-1	CLP:	Asp. Tox. 1;H304, Aquatic Chronic 4;H413
Isopropyl alcohol	EINECS: 200-661-7	CLP:	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336

CLP: Regulation No. 1272/2008.

#### specific concentration limit

Chemical name		specific concentra- tion limit		Category	Hazard state- ments
Ethanol	EINECS: 200-578-6	>= 50 %	Serious eye irritation	2	H319

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.

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

**Skin Contact:** Wash with soap and water.

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.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

# SECTION 5: Firefighting measures

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5.1 Extinguishing media

Suitable extinguishing me-

dia:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

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 proce-

dures:

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.

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.

Scrape up spillage or absorb with absorbing material. Stop the flow of ma-

6.3 Methods and material for containment and cleaning up:

terial, if this is without risk. Dispose of the material collected according to regulations.

6.4 Reference to other sec-

tions:

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:

Store locked up. 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

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### SECTION 8: Exposure controls/personal protection

#### **8.1 Control Parameters**

#### **Occupational Exposure Limits**

Chemical name	Туре	Exposure Limit Values		Source
Ethanol	AGW	200 ppm	380 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (06 2018)
Hydrocarbons, low viscosity	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), as amended (2011)
Hydrocarbons, low viscosity	AGW		300 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended
Propane	AGW	1.000 ppm	1.800 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012)
Butane	AGW	1.000 ppm	2.400 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012)
Isobutane (<0,1% 1,3-butadiene)	AGW	1.000 ppm	2.400 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012)
Isopropyl alcohol	AGW	200 ppm	500 mg/m3	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 equip-

> ment 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 ad-

hered to inhandling 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.

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Skin protection

Hand Protection: Material: Nitrile butyl 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 manufactur-

er of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

**Respiratory Protection:** Do not breathe dust/fume/gas/mist/vapors/spray. Provide adequate ventila-

tion. 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 foot-

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wear 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: Colorless Odor: Characteristic

**Odor Threshold:** Not applicable for mixtures

pH: substance/mixture is non-soluble (in water)

Freezing point: Not applicable for mixtures

**Boiling Point:** Value not relevant for classification

**Flash Point:** < -60 °C (DIN 51755) **Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification Flammability Limit - Upper (%)-: Value not relevant for classification Flammability Limit - Lower (%)-: Value not relevant for classification

Vapor pressure: Not applicable for mixtures Vapor density (air=1): Not applicable for mixtures Density: 0,85 g/cm3 (20 °C) (DIN 51757)

Solubility(ies)

Solubility in Water: partly soluble Solubility (other): No data available.

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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: < 20,5 mm2/s (20 °C, DIN 51562) **Explosive properties:** Value not relevant for classification Oxidizing properties: Value not relevant for classification

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 oth-

er 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.

Specified substance(s)

Ethanol LD 50 (Rat): > 6.200 mg/kg

Cyclopentane LD 50 (Rat): > 5.000 mg/kg (OECD 423)

Hydrocarbons, low vis-

cosity

LD 50 (Rat): > 5.001 mg/kg (OECD 401)

Hydrocarbons, low vis-

cosity

LD 50 (Rat): > 10.000 mg/kg

Hydrocarbons, low vis-

cous

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

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

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**Dermal** 

**Product:** 

Not classified for acute toxicity based on available data.

Specified substance(s)

Ethanol

LD 50 (Rabbit): > 20.000 mg/kg (OECD 402)

Hydrocarbons, low vis-

cosity

LD 50 (Rabbit): > 5.001 mg/kg (OECD 402)

Hydrocarbons, low vis-

cous

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

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

Cyclopentane LC 50 (Rat, 4 h): > 25,3 mg/l (OECD 403)

Hydrocarbons, low vis-

cosity

LC 50 (Rat, 4 h): > 5 mg/l

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

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.

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**Specific Target Organ Toxicity - Repeated Exposure** 

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

**Aspiration Hazard** 

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

Other adverse effects: No data available.

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

### 12.1 Toxicity

**Acute toxicity** 

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

**Fish** 

Specified substance(s)

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

Isobutane (<0,1% 1,3-

butadiene)

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

Ethanol LC 50 (Fish, 96 h): > 2.000 mg/l (OECD 203)

Cyclopentane LC 50 (Fish, 96 h): 29,3 mg/l

Hydrocarbons, low vis-

cosity

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

Hydrocarbons, low vis-

cosity

LC 50 (Fish, 96 h): > 101 mg/l

Hydrocarbons, low vis-

cous

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

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

Aquatic Invertebrates Specified substance(s)

Isobutane (<0,1% 1,3-

butadiene)

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

Ethanol LC 50 (Water Flea, 48 h): 5.012 mg/l

Cyclopentane EC 50 (Water Flea, 48 h): 51,1 mg/l

Hydrocarbons, low vis-

cosity

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

Hydrocarbons, low vis-

cous

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

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

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

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Aquatic Invertebrates Specified substance(s)

Ethanol NOEC (Water Flea, 10 d): 9,6 mg/l

Toxicity to Aquatic Plants Specified substance(s)

Isobutane (<0,1% 1,3-

butadiene)

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

Ethanol EC 50 (Alga, 72 h): 275 mg/l (OECD 201)

NOEC (Alga, 7 d): 208 mg/l (OECD 201)

Cyclopentane LC 50 (Alga, 72 h): 21,58 mg/l

Hydrocarbons, low vis-

cosity

EC 50 (Alga, 72 h): > 1.001 mg/l

Hydrocarbons, low vis-

cous

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

Isopropyl alcohol LC 50 (Alga, 72 h): > 100 mg/l

12.2 Persistence and Degradability

**Biodegradation** 

**Product:** Not applicable for mixtures

Specified substance(s)

Ethanol > 70 % (5 d, OECD 301D) Readily biodegradable

Cyclopentane Not easily biodegradable

Hydrocarbons, low vis-

cosity

31 % (28 d, OECD 301F) Not readily degradable.

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:** 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

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: 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:

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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 as-

sessment:

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.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.
 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 applica-

tion of the conventional method.

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Disclaimer:

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