### SAFETY DATA SHEET

# RVS Technology Premium Universal Oil, RVS Technology MC Chain Lube, RVS Technology Bicycle Chain Lube

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II with amendments in accordance with Commission Regulation (EU) 2020/878.

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued August 21, 2023 Date verified August 21, 2023

1.1 Product identifier

Product name RVS Technology Premium Universal Oil, RVS Technology MC Chain Lube,

RVS Technology Bicycle Chain Lube

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

Use of the substance/preparation
Use categories

Combined lubricant and surface treatment product
PC-TEC-11 Lubricants, greases, release agents

Use by consumers Yes

1.3 Details of the supplier of the safety data sheet

Supplier

Company name Oy RVS Technology Ltd.

Office address Pulttitie 2
Postcode 00880
City Helsinki
Country Finland

Tel. +358-(0)9-7599 010

E-mail rvs@rvs.fi
Website http://www.rvs.fi/
Enterprise no. (VAT number) FI21185745

1.4 Emergency telephone number

Emergency telephone Description: Poison Information Centre (in Finland), Tukholmankatu 17, Box

790, 00029 HUS (Helsinki), (24 h)

Telephone: +358-9-4711 or +358-9-471977

### **SECTION 2:** Hazard identification

### 2.1 Classification of substance or mixture

Classification according to Regulation (EC) 1272/2008 [CLP / GHS] Aerosol 1; H229
Aerosol 1; H222

### 2.2 Label elements

### Hazard labels (CLP)



Label information Butane, Propane Signal word Danger

Hazard statements H229 Pressurised container: May burst if heated.

H222 Extremely flammable aerosol.

P phrases P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding

50 °C / 122 °F.

P501 Dispose of contents/container. Dispose of the contents and/o rits container in accordance with the waste collecting system organised in your municipality

2.3 Other hazards

PBT / vPvB Not applicable.
Other hazards Data not available.

# SECTION 3: Composition / information on ingredients

### 3.1 -

### 3.2 Mixtures

Composition type Mixture

Substance Colza oil	Identification CAS no. 8002-13-9	Classification	Contents 25–50 %	Comments
00124 011	EC no. 232-299-0		20 00 70	
Butane	CAS no. 106-97-8 EC no. 203-448-7 Index no. 601-004- 00-0	Flam. Gas 1; H220; Press. Gas (Comp.); CLP classification, comments: C; U	25–50 %	
Propane	CAS no. 74-98-6 EC no. 200-827-9 Index no. 601- 00300-5	Flam. Gas 1; H220; Press. Gas (Comp.); CLP classification, comments: U	2.5–10 %	

## **SECTION 4:** First aid measures

# 4.1 Description of first aid measures

General In case of an accident or nausea: immediately seek medical attention (show

this label if possible) NB! Symptoms may be delayed. Observe the injured

person.

Inhalation The person must rest in fresh air under surveillance. In case of nausea, get

medical attention. Take the Safety Data Sheet with you.

Skin contact Rinse the skin immediately thoroughly with plenty of soap and water.

Remove contaminated clothing and continue rinsing. Immediately get

medical attention, if irritation persists after the wash.

Eye contact Immediately flush eyes with plenty of water. Keep eye lashes widened.

Remove contact lenses, if easy to do. Continue rinsing. Seek medical

attention.

Ingestion Seek medical attention. Take the Material Safety Data Sheet with you.

# 4.2 Most important symptoms and effects, both acute and delayed

General symptoms and effects

No known symptoms or effects.

### 4.3 Indication of any immediate medical attention and special treatment needed

Medical care Treat symptomatically.

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Foam. Powder. Carbon dioxide (CO<sub>2</sub>).

Improper extinguishing media Avoid directing a water jet towards the fire. It may spread the fire.

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire, hazardous gases may form.

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

5.3 Advice for firefighters

Personal protective equipment Wear self-contained breathing apparatus (SCBA) and full protective

equipment. Choice of breath protection device during an early phase of a

fire: Follow general instructions of the place of work.

Firefighting measures Remove all the ignition sources if it can be done safely. Cool aerosol cans

that have been exposed to heat with a water jet and remove from the fire site

if it can be done safely.

Other information Collect extinguishing water. Waste is disposed of in accordance with

instructions given by local authorities.

# **SECTION 6:** Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

General measures

Remove all ignition sources if it can be done safely. Wear appropriate protective equipment. Pay attention on other possible chemicals in the surroundings. Stop leak if it can be done safely. Evacuate the area.

### 6.2 Environmental precautions

Environmental precautionary measures

Prevent the spilt product from entering water and sewage systems and from contaminating the soil and vegetation. If it is not possible, immediately inform the police and appropriate authorities.

### 6.3 Methods and material for containment and cleaning up

Cleaning

Collect in inert absorption material and place in a suitable container. Do not absorb in saw dust or any other flammable material. The contents must be clearly marked with hazards signs on containers, in which the spills have be collected.

### 6.4 Reference to other sections

Other instructions

Personal protective equipment: see section 8.

Waste disposal: see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Handling

Ensure good ventilation. Follow good chemical hygiene. Keep away from ignition sources – No smoking. Collect spilt material. Keep away from heat, sparks and open fire. Prevent sparking caused by static electricity. Keep containers tightly closed before and after use. Eating, drinking, and smoking are prohibited while using the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage

Store in tightly sealed original package or container in a cool place with good ventilation. Keep away from heat/sparks/open fire/hot surfaces. – No smoking. Keep containers tightly closed. Do not store in proximity of groceries or animal food. Do not cut, drill, weld, or carry out any other corresponding actions over the containers or in their proximity.

### Conditions for safe storage

Storage temperature

Value: 5-30 °C (41-86 °F)

### 7.3 Specific end use(s)

Specific methods of use

No specific recommendations.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Substance	Identification	Exposure limits	Year
Butane	CAS number: 106-97-8	Exposure limit (8 h): 800 ppm	
		Exposure limit (8 h): 1900 mg/m <sup>3</sup>	
		Exposure limit (15 min)	
		Value: 1000 ppm	
		Exposure limit (15 min)	
		Value: 2400 mg/m <sup>3</sup>	
		Exposure limit letter code	
		Letter code: 4	
Propane	CAS number: 74-98-6	Exposure limit (8 h): 800 ppm	
		Exposure limit (8 h): 1500 mg/m <sup>3</sup>	
		Exposure limit (15 min)	
		Value: 1100 ppm	
		Exposure limit (15 min)	
		Value: 2000 mg/m <sup>3</sup>	
		Exposure limit letter code	
		Letter code: 4	

Limit values	Source: HTP-Arvot 2020 (in Finnish)

### **DNEL / PNEC**

DNEL Comment: Data are not available.
PNEC Comment: Data are not available.

# 8.2 Exposure controls

# Measures to prevent exposure

Product related measures to prevent exposure

Ensure good ventilation. Follow good chemical hygiene. Eating, drinking, and smoking are prohibited while using the product. Remove contaminated clothes and wash them thoroughly before wearing them again. Wash hands and any dirty area with water and soap after finishing the work.

Hand protection

Skin and hand protection, short-term contact

Wearing protective gloves is recommended.

Hand protection, comments

Choose best possible gloves in cooperation with the glove supplier. They can

tell you the penetration time of the glove material.

Skin protection

Suitable protective clothes

Not necessary in normal circumstances.

**Breathing protection** 

General breathing protection Breathing protection is needed In normal use circumstances a respirator is not necessary.

No special precautions, but a respirator has to be used if air impurities

exceed hygienic limit values.

# SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Form Aerosol package: not specified

Physical state Liquid. Colour Colourless. Characteristic. Odour

Odour threshold Comments: Not suitable. Comments: Not suitable.

Melting point / melting range Comments: Not suitable. Freezing point Comments: Not suitable. Boiling point / boiling range

Value: 42 °C (107 °F) Comments: Propellant. Value: -104 °C (-155 °F) Comments: Propellant.

Comments: Not suitable.

Evaporation rate Comments: Not suitable. Flammability Comments: Not suitable. Lower explosion limit and unit of Comments: Not suitable.

measure

Flash point

Upper explosion limit and unit of

measure

Vapour pressure

Value: < 300 kPa (< 43.5 psi) Temperature: 50 °C (122 °F) Comments: Not suitable. Vapour density

Relative density Comments: Not suitable. Comments: Not suitable. Density Solubility Comments: Not suitable. Partition coefficient: n-octanol / water Comments: Not suitable. Spontaneous combustibility Value: 410 °C (770 °F) Comments: Propellant.

Comments: Not suitable. Decomposition temperature Viscosity Comments: Not suitable.

Not suitable. Explosive properties Oxidising properties Not suitable.

#### 9.2 Other information

9.2.1 -

# 9.2.2 Other safety properties

Data not available.

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Reactivity There are no known reactivity hazards connected with this product.

10.2 Chemical stability

Stability Stable when in normal temperatures and used in accordance with

instructions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions There are no known reactivity hazards connected with this product.

10.4 Conditions to avoid

Conditions to avoid Protect from heat, sparks, and open fire. Not to be exposed to high temperatures or direct sunlight.

10.5 Incompatible materials

Materials to avoid Strong acids. Strong alkalis.

10.6 Hazardous decomposition products

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## **SECTION 11: Toxicological information**

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

Acute toxicity

Effect tested: LD50 Exposure routes: Orally Value: > 2000 mg/kg Comments: CAS: 8002-13-9

Effect tested: LD50 Exposure routes: Via skin Value: > 2000 mg/kg Comments: CAS: 8002-13-9

Effect tested: LC50

Exposure routes: Breathing

Duration: 4 h Value: > 20 mg/l

Comments: CAS: 8002-13-9

Effect tested: LD50 Exposure routes: Orally Value: > 2000 mg/kg Comments: CAS: 74-98-6

Effect tested: LD50 Exposure routes: Via skin Value: > 2000 mg/kg Comments: CAS: 74-98-6

Effect tested: LC50

Exposure routes: Breathing

Duration: 4 h Value: > 5 mg/l

Comments: CAS: 74-98-6

Effect tested: LD50 Exposure routes: Orally Value: > 2000 mg/kg Comments: CAS: 106-97-8

Effect tested: LD50 Exposure routes: Via skin Value: > 2000 mg/kg Comments: CAS: 106-97-8

Effect tested: LC50

Exposure routes: Breathing

Duration: 4 h Value: 658 mg/

Comments: CAS: 106-97-8

Information on other health hazards

Estimation of acute toxicity Estimation of skin corrosion General respiratory or skin

Based on the available information classification criteria are not met. Based on the available information classification criteria are not met. Based on the available information classification criteria are not met.

sensitisation Mutagenicity Estimation of carcinogenicity Estimation of reproductive toxicity

Based on the available information classification criteria are not met. Based on the available information classification criteria are not met. Based on the available information classification criteria are not met. Based on the available information classification criteria are not met.

STOT – single exposure, classification

Based on the available information classification criteria are not met.

STOT - repeated exposure,

Based on the available information classification criteria are not met.

classification

Estimation of aspiration hazard

classification

11.2 Information on other hazards

Properties that disturb hormone activity

No data available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Ecological toxicity No data on the product as such exist.

### 12.2 Persistence and degradability

Description/estimation of persistence

Not suitable.

and degradability

### 12.3 Bioaccumulative potential

Estimation of bioaccumulative potential

Accumulation: not thought to be bioaccumulative.

12.4 Mobility in soil

Mobility No data on the product as such exist. The product is not water-soluble.

### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment results Not suitable.

### 12.6 Endocrine disrupting properties

Endocrine disrupting properties No data available.

12.7 Other adverse effects

Other ecological data No data available.

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Appropriate waste treatment methods, product

Emissions and waste are disposed of in accordance with the instructions of the local authorities. WARNING: The aerosol is pressurised. Keep away from direct sunlight and temperatures over 50 °C (122 °F). Do not open forcibly or throw to fire even when empty. Do not spray to flames or blazing objects.

European Waste Code (EWC)

European Waste Code (EWC): 160504 gases in pressure containers (including halons) containing hazardous substances.

Classified as hazardous waste: Yes.

# **SECTION 14: Transport information**

Product classified as hazardous Yes

### 14.1 UN number

ADR/RID/ADN 1950 **IMDG** 1950 ICAO/IATA 1950

### 14.2 UN proper shipping name

Trade name to be used in shipping **AEROSOLS** ADR/RID/ADN **AEROSOLS IMDG AEROSOLS** 

ICAO/IATA AEROSOLS, FLAMMABLE

### 14.3 Transport hazard class(es)

ADR/RID/ADN 2.1 Classification code ADR/RID/ADN 5F

## 14.4 Packing group

### 14.5 Environment hazards

IMDG No.

# 14.6 Special precautions for user

Other applicable safety measures of the user

Flammable aerosol.

trie user

### 14.7 Maritime transport in bulk according to IMO instruments

Trade name AEROSOLS, FLAMMABLE

Other applicable information

Danger label ADR/RID/ADN 2.1
Danger label IMDG 2.1
Danger label ICAO/IATA 2.1

ADR/RID Additional information

Tunnel code

D

Special regulations 190, 327, 344, 625

Transport category 2

**IMDG Additional information** 

EmS F-D, S-U

Special regulations 63, 190, 277, 327, 344, 959

ICAO/IATA Additional information
Limited quantities 1 L

# **SECTION 15: Regulatory information**

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

Restrictions

National legislation

No recommendation.

Legislation and regulations

Decree of the Ministry of Social Affairs and Health of Finland on delivering notifications on chemicals and information on amounts 1118/2020. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, with later amendments.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with later amendments.

Seveso directive P5c

### 15.2 Chemical safety assessment

Chemical safety assessment performed

No

### **SECTION 16: Other information**

Supplier remarks

Data in this material safety data sheet is based on the data that was available to us on the date of compiling, and they have been given provided the product will be used in normal circumstances and in harmony with methods of use indicated in the package and relevant technical literature. Other use of the product, possibly in combination with other products or processes, is done on the responsibility of the user.

List of H phrases used (in sections 2

H220 Extremely flammable gas. H222 Extremely flammable aerosol.

and 3)

H229 Pressurised container: May burst if heated Material safety data sheet January 24th, 2019

The most important sources used in compiling the material safety data

sheet

Amendment after previous version (additions, removals and checks)

Significant amendments to the previous version are marked on the left

margin with vertical lines.

Version
English translation

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