RVS Technology Injection System Protection & Restoration, RVS Technology 2-Stroke Engine Protection & Restoration. RVS Technology 2-Stroke Engine Treatment, RVS Technology Chain Saw Protection & Restoration, RVS Technology Chain Saw Treatment - Version 1

SAFETY DATA SHEET

RVS Technology Injection System Protection & Restoration, RVS Technology 2-Stroke Engine Protection & Restoration, RVS Technology 2-Stroke Engine Treatment.

> RVS Technology Chain Saw Protection & Restoration, **RVS Technology Chain Saw Treatment**

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

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

Product identifier 1.1

Product name RVS Technology Injection System Protection & Restoration, RVS Technology

2-Stroke Engine Protection & Restoration, RVS Technology 2-Stroke Engine Treatment, RVS Technology Chain Saw Protection & Restoration, RVS

Technology Chain Saw Treatment

Ready-for-use mixture in a bottle Product definition

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

Use of the substance/preparation

Treating metal surfaces of the mechanism being used in Use categories PC-TEC-12 Metal surface treatment products

Use by consumers

Details of the supplier of the safety data sheet 1.3

Supplier

Company name Oy RVS Technology Ltd.

Pulttitie 2 Office address Postcode 00880 Helsinki City Country Finland

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

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

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

Classification of substance or mixture 2.1

The substance has not been classified as hazardous. CLP classification, comments

2.2 Label elements

2.3 Other hazards

PBT / vPvB This product is not classified as a PBT or vPvB substance.

SECTION 3: Composition / information on ingredients

3.1

3.2 **Mixtures**

Composition type Mixture

Substance Identification Classification Contents Comments

Hvdrocarbons, C11-EC no.: 926-141-6 Asp. Tox. 1; H304 < 3 % vol./vol.

C14, n-alkanes,

RVS Technology Injection System Protection & Restoration, RVS Technology 2-Stroke Engine Protection & Restoration, RVS Technology 2-Stroke Engine Treatment, RVS Technology Chain Saw Protection & Restoration, RVS Technology Chain Saw Treatment – Version 1

isoalkanes, cyclical

<2% aromates

SECTION 4: First aid measures

4.1 Description of first aid measures

General In case of an accident or nausea, get immediate medical attention (show this

label if possible).

Inhalation The person must repose in fresh air under observation. 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. Contact a doctor if symptoms

persist.

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. Do not

induce vomiting. If vomiting cannot be avoided, keep the head down in order to prevent the stomach contents from entering the lungs. Check breathing of an unconscious person. Monitor breathing. If breathing stops, give artificial ventilation. Unconscious victims must be turned on their sides with their heads down, keep them warm. Call an ambulance. Do not give an unconscious

person anything to drink.

4.2 Most important symptoms and effects, both acute and delayed

General symptoms and effects

Repeated exposure may cause skin desiccation or blister. Inhaling vapours and mists in high contents causes fatigue, headache, dizziness, and nausea.

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
Improper extinguishing media

Foam. Powder. Carbon dioxide (CO₂).

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 (CO₂).

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

Other information

Cool containers exposed to heat with water until the fire has been

extinguished. Remove all the ignition sources if it can be done safely.

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

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

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 spilt material in an inert absorption material, and put in a suitable

Spills and polluting material are collected and removed from the place of work as soon as possible, and they have to be put in suitable, marked waste containers.

RVS Technology Injection System Protection & Restoration, RVS Technology 2-Stroke Engine Protection & Restoration. RVS Technology 2-Stroke Engine Treatment, RVS Technology Chain Saw Protection & Restoration, RVS Technology Chain Saw Treatment - Version 1

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. Beware of inhaling

vapours and the substance entering skin and eyes. Keep away from ignition sources - Smoking prohibited. Keep away from heat, sparks, and open fire. Prevent sparking caused by static electricity. Containers must be kept 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. - Smoking

prohibited. Keep containers tightly closed. Store upright. Do not store in

proximity of groceries or animal food.

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**

Hydrocarbons, C11-C14, CAS number: 64742-47-8 Exposure limit (8 h): 5 mg/m n-alkanes, isoalkanes, Source: HTP-Arvot 2020 (in Finnish)

cyclical <2% aromates Comments: Oil mist

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 Follow good chemical hygiene. Eating, drinking, and smoking are prohibited while using the product. Remove contaminated clothes and wash them exposure

thoroughly before wearing them again. Wash hands and any dirty area with

water and soap after finishing the work. Appropriate technical measures to The work place has to have an emergency shower and a possibility for eye

flushing when using the product.

prevent exposure

Eye and face protection

Safety goggles that fully cover the eyes.

Required properties Hand protection

Skin and hand protection, short-term

contact

Suitable glove type

Hand protection, comments

Wearing protective gloves is recommended.

Nitrile rubber gloves are the most suitable.

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. Suitable protective clothing must be

worn if direct contact or splashes are possible.

Skin protection, comments Remove contaminated clothes and wash them thoroughly before wearing

them again. A possibility for immediate eye flushing and shower at the work place.

Breathing protection

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

Breathing protection needed In case of insufficient ventilation or if there is a risk of inhaling oil mist, you can

wear a suitable bi-filter face mask (type (A2/P3).

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Liquid Form

RVS Technology Injection System Protection & Restoration, RVS Technology 2-Stroke Engine Protection & Restoration. RVS Technology 2-Stroke Engine Treatment, RVS Technology Chain Saw Protection & Restoration, RVS Technology Chain Saw Treatment - Version 1

Physical state Suspension. Colour Yellowish. Odour Characteristic.

Odour threshold Comments: Not suitable. Comments: Not suitable. Value: -33 °C (-27.4 °F) Melting point / melting range Method: ASTM D-97

Value: > 400 °C (> 752 °F) Boiling point / boiling range

Comments: The petroleum ether in the mixture boils at 193-245 °C (379-

473 °F)

Flash point Value: > 70 °C (158 °F)

Method: ASTM D-92 / ASTM D-93/PMCC

Comments: Not suitable. Evaporation rate

Flammability Not suitable.

Lower explosion limit and unit of Comments: Not suitable.

measure

Upper explosion limit and unit of Comments: Not suitable.

measure

Vapour pressure Comments: Petroleum ether: 19-25 kPa (2.8-3.6 psi)

Temperature: 20 °C (68 °F). Comments: Not suitable. Vapour density Density Value: 850-900 kg/m3 Temperature: 15 °C (~ 60 °F)

Solubility Solvent: Water

Comments: The product is not water-soluble.

Solvent: Other

Name: Organic solvents.

Comments: Dissolves in organic solvents.

Partition coefficient: n-octanol / water Comments: Not suitable. Spontaneus combustability Comments: Not suitable. Comments: Not suitable. Decomposition temperature Viscosity Comments: Not suitable.

Explosive properties Not suitable. 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 No known reaction hazards are related 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 Oxidising materials.

10.6 Hazardous decomposition products

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

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

Other toxicological information No data on the product as such exist.

Information on other health hazards

Estimation of acute toxicity Based on the available information classification criteria are not met.

RVS Technology Injection System Protection & Restoration, RVS Technology 2-Stroke Engine Protection & Restoration. RVS Technology 2-Stroke Engine Treatment, RVS Technology Chain Saw Protection & Restoration, RVS Technology

Chain Saw Treatment - Version 1 Estimation of skin corrosion / skin

irritation

General respiratory or skin

sensitisation

Mutagenicity Estimation of carcinogenicity Estimation of reproductive toxicity

STOT – single exposure,

classification

STOT - repeated exposure,

classification

Estimation of aspiration hazard

classification

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. 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.

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 and degradability

The product is not easily biodegradable.

12.3 Bioaccumulative potential

Estimation of bioaccumulative potential

Accumulation: not believed to be bioaccumulative.

12.4 Mobility in soil

Mobility

The product is non-soluble and floats on water.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment results This product has not been classified as an PBT or vPvB substance. 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

The product must not be thrown to the environment, but it has to be collected. and measures have to be undertaken in accordance with the instructions of the local authorities. Avoid direct contact with waste. Empty containers must not be reused.

SECTION 14: Transport information

Product classified as hazardous

14.1 UN number

14.2 UN proper shipping name

Comments Not applicable.

14.3 Transport hazard class(es)

Comments Not applicable.

14.4 Packing group

Comments

Not applicable.

14.5 Environment hazards

Comments

Not applicable.

14.6 Special precautions for user

Other applicable safety measures of

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Pollution category

Not included.

RVS Technology Injection System Protection & Restoration, RVS Technology 2-Stroke Engine Protection & Restoration, RVS Technology 2-Stroke Engine Treatment, RVS Technology Chain Saw Protection & Restoration, RVS Technology Chain Saw Treatment – Version 1

SECTION 15: Regulatory information

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

Restrictions National legislation Not known.

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.

H304 May be fatal if swallowed and enters airways.

List of H phrases used (in sections 2 and 3)

The most important sources used in compiling the material safety data sheet

Amendment after previous version (additions, removals and checks) Version

English translation

Material safety data sheet December 5th, 2018

Significant amendments to the previous version are marked on the left margin with vertical lines.

1

This document is a translation of the original document in Finnish that has been made in accordance with the laws and regulations applicable in Finland. Parts of this document may not be applicable in other countries and territories. This document may lack essential information that is required in other countries and territories.