#### SAFETY DATA SHEET RVS Technology Engine Treatment, RVS Technology Engine Protection & Restoration, RVS Technology Engine & Hydraulics Protection & Restoration

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 Date verified August 23<sup>rd</sup>, 2023 August 23<sup>rd</sup>, 2023

#### 1.1 Product identifier

Product name

Product definition

Use categories

RVS Technology Engine Treatment, RVS Technology Engine Protection & Restoration, RVS Technology Engine & Hydraulics Protection & Restoration Oil in the bottle included in the product package

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

Use of the substance/preparation

Part of a product for restoration and modification of metal friction surfaces of internal combustion engines PC-TEC-OTH Other products for chemical or technical processes Yes

#### Use by consumers Yes 1.3 Details of the supplier of the safety data sheet

#### Supplier

Cappiloi	
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	www.rvs.fi
Enterprise no. (VAT number)	FI21185745

#### **1.4 Emergency telephone number** Emergency telephone Descript

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 CLP classification, comments The substance has not been classified as hazardous. 2.2 Label elements Other Label Information (CLP) The substance has not been classified as hazardous. 2.3 Other hazards

# Other hazards

A long-term skin contact may desiccate and irritate the skin and cause skin inflammation. The product may harm organisms in the soil and water systems. May not be released to the environment.

# **SECTION 3:** Composition / information on ingredients

3.1 -

#### 3.2 Mixtures

Composition type Mixture

Substance	Identification	Classification	Contents	Comments
Basic oil - unspecified			90–100 %	
Phosphorodithioate,	CAS no. 68649-42-3	Skin Irrit. 2; H315	0–2 %	
O, O-diC1-14-	EC no.: 272-028-3	Eye Irrit. 2; H319		
alkylesters, zinc salts				

# SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General	In case of aspiration problems, move the person to fresh air and keep in repose position, in which he/she feels easy to breath. If symptoms occur, contact a doctor. NB! Symptoms may be delayed. Observe the injured person.		
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. 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. Do not induce vomiting. If vomiting cannot be avoided, keep the head down in order to prevent the stomach contents from entering the lungs.		
4.2 Most important symptoms and effects, both acute and delayed			
	Management and a share a second		

#### General symptoms and effects Vapours or splashes may cause eye irritation and pain. Repeated or long-

term contact may cause skin desiccation. Oil mist inhalation may irritate respiratory organs.

#### **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 (CO2).		
	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	Cool containers exposed to heat with water until the fire has been extinguished. Remove all the ignition sources 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	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 precaution		ons
	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		or containment and cleaning up
	Cleaning	Collect spilt material in a tightly closed container and let it be disposed of in accordance with local authorities. Spilt product must be absorbed in inert absorption material.
6.4 Reference to other sections		ions

Other instructions

Personal protective equipment: see section 8. Waste disposal: see section 13. Page 3 / 6 RVS Technology Engine Treatment, RVS Technology Engine Protection & Restoration, RVS Technology Engine & Hydraulics Protection & Restoration – Version 1

Hydraulics Protection & Restoration – Version 1			
SECTION 7: Handling and storage			
7.1 Precautions for safe ha	ndling		
Handling	Ensure good ventilation. Follow good chemical hygiene. Eating, drinking, and smoking are prohibited while using the product. Beware of the product getting into eyes, onto skin and clothes.		
	rage, including any incompatibilities		
Storage	Store in tightly sealed original package or container in a cool place with good ventilation. Keep containers tightly closed. Do not store in proximity of groceries or animal food. Protect from heat and direct sunlight.		
Conditions for safe storage			
Storage temperature 7.3 Specific end use(s)	Value: ≤ 40 °C (≤ 105 °F)		
Specific methods of use	No specific recommendations.		
SECTION 8: Exposure	controls/personal protection		
8.1 Control parameters			
Limit values	Exposure limit (8 h): 5 mg/m <sup>3</sup> Source: HTP-Arvot 2020 (in Finnish) Comments: Oil mist		
DNEL/PNEC			
	mment: Data are not available. mment: Data are not available.		
Measures to prevent exposure Appropriate technical measures to prevent exposure Product related measures to prevent exposure	<b>IFE</b> Ensure good ventilation. Local air suction is recommended. 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		
Eye or face protection	water and soap after finishing the work.		
Required properties	Wear safety goggles if there a risk of eye contact or splashes.		
Hand protection			
Skin and hand protection, short-term contact	Wearing protective gloves is recommended.		
Suitable materials	Nitrile rubber. Polyvinylchloride (PVC)		
Hand protection, comments	Choose best possible gloves in cooperation with the glove supplier. They can tell you the penetration time of the glove material. When signs of wear are detected in the gloves, replace them with new ones.		
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	Wear a respirator in case of insufficient ventilation.		
Recommended apparatus type	Wearing a bi-filter mask (type A2/P2) is recommended.		
SECTION 0: Develoal a			

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Form Physical state Colour Odour Odour threshold pH Melting point / melting range Liquid Oily. Yellowish brown Mild. Comments: Not suitable. Comments: Not suitable. Comments: No data. RVS Technology Engine Treatment, RVS Technology Engine Protection & Restoration, RVS Technology Engine & Hydraulics Protection & Restoration – Version 1

- Comments: Data not available. Freezing point Boiling point / boiling range Value: > 350 °C (> 660 °F) Value: > 200 °C (> 390 °F) Flash point Comments: closed cup Evaporation rate Comments: No data. Comments: Data not available. Flammability Lower explosion limit and unit of Comments: Data not available. measure Upper explosion limit and unit of Comments: Data not available. measure Vapour pressure Comments: No data. Comments: No data. Vapour density Density Value: 880-890 kg/m<sup>3</sup> Temperature: 15 °C (~ 60 °F) Solubility Comments: The product is not water-soluble. Partition coefficient: n-octanol / water Value: > 4 Comments: log Kow Spontaneus combustability Comments: No data. Decomposition temperature Comments: No data. Value: 196-250 Viscosity Temperature: 40 °C (104 °F). Not classified. Explosive properties Oxidising properties Not classified.
- 9.2 Other information
  9.2.1 –
  9.2.2 Other safety properties

Remarks

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	s reactions			
Possibility of hazardous reactions	No hazardous reactions are known for normal use conditions.			
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. Strong acids.			
10.6 Hazardous decompositi	10.6 Hazardous decomposition products			
Hazardous decomposition products	In case of fire, toxic gases (CO, CO <sub>2</sub> ) are formed.			
SECTION 11: Toxicologi	cal information			
11.1 Information on hazard c	lasses as defined in Regulation (EC) No 1272/2008			
Other toxicological information	No data on the product as such exist.			

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

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Based on the available information classification criteria are not met.

classification STOT – repeated exposure, classification

irritation

sensitisation Mutagenicity

Estimation of skin corrosion / skin

General respiratory or skin

Estimation of carcinogenicity

Estimation of reproductive toxicity STOT – single exposure,

Information on other health hazards Estimation of acute toxicity Based on the available information classification criteria are not met. RVS Technology Engine Treatment, RVS Technology Engine Protection & Restoration, RVS Technology Engine & Hydraulics Protection & Restoration – Version 1

Estimation of aspiration hazard Based on the available information classification criteria are not met.

#### 11.2 Information on other hazards

Properties that disturb hormone No data available. activity

## **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 No data available. and degradability 12.3 Bioaccumulative potential Estimation of bioaccumulative Possibly biologically accumulative. potential 12.4 Mobility in soil Mobility Non-soluble in water. 12.5 Results of PBT and vPvB assessment PBT and vPvB assessment results No data available. 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<br/>methods, productThe product must not be thrown to the environment, but it has to be<br/>collected, and measures have to be undertaken in accordance with the<br/>instructions of the local authorities.<br/>European waste code (EWC):<br/>13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils<br/>Classified as hazardous waste: Yes

# **SECTION 14: Transport information**

Product classified as hazardous	No
14.1 UN number	
14.2 UN proper shipping na	me
Comments	Not applicable.
14.3 Transport hazard class	s(es)
Comments	Not applicable.
14.4 Packing group	
Comments	Not applicable.
14.5 Environment hazards	
Comments	Not applicable.
14.6 Special precautions fo	r user
Other applicable safety measures of the user	Not applicable.

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

Pollution category

Not relevant.

# SECTION 15: Regulatory information

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

#### substance or mixture

Restrictions National legislation

Legislation and regulations

Not known.

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 RVS Technology Engine Treatment, RVS Technology Engine Protection & Restoration, RVS Technology Engine & Hydraulics Protection & Restoration – Version 1

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

# 15.2 Chemical safety assessmentChemical safety assessmentNo

performed

SECTION	16: O	ther in	formation
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Supplier remarks List of H phrases used (in sections 2 and 3) The most important sources used in compiling the material safety data	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. H315 Causes skin irritation. H319 Causes serious eye irritation. Material safety data sheet March 1 <sup>st</sup> , 2019
Amendment after previous version (additions, removals and checks) Version	Significant amendments to the previous version are marked on the left margin with vertical lines.
English translation	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.