X	**SAFETY DATA SHEET**		**INFORMATION FORM FOR CHEMICALS DATA**

Date: January 23rd, 2008 **Former date:** -

1. IDENTIFICATION OF THE CHEMICAL AND OF THE MANUFACTURER, IMPORTER OR OTHER UNDERTAKING

1.1 Identification of the substance or preparation

Trade name
RVS Technology Injection Pump Treatment
Code of the preparation
-

1.2 Use of the chemical

1.2.1 The intended uses of the chemical
Product for restoration and modification of metal friction surfaces of diesel engine fuel injection pumps

1.2.2	**Standard industrial classification (SIC)**	232
1.2.3	**Use categories (UC62)**	55
1.2.4	**The chemical can be used by the general public**	X
1.2.5	**The chemical is used by the general public only**	

1.3 Identification of the manufacturer, importer or other undertaking

1.3.1 Manufacturer, importer, other undertaking
Oy RVS Technology Ltd.

1.3.2 Contact information:

Street address	Pulttitie 6
Postcode and post office	00880 Helsinki
Post-office box	
Postcode and post office	
Telephone number	+358-(0)9-7599 010
Telefax	+358-(0)9-7599 0111
Y code	2118574-5

1.3.3 Information on foreign manufacturer

1.4 Emergency telephone

1.4.1 Telephone number, name and address
+358-(0)9-2414 392 or +358-(0)9-4711, Helsinki University Central Hospital, Poison Information Centre, Stenbäckinkatu 11, 00920 Helsinki, Finland
+358-40-562 0272, Oy RVS Technology Ltd., Finland

2. COMPOSITION AND INFORMATION ON INGREDIENTS

2.1 Hazardous ingredients

2.1.1 CAS number or other code	2.1.2 Name of the ingredient	2.1.3 Concentration	2.1.4 Warning symbol, R phrases and other data on the ingredient
68037-01-4/ 101316-72-7/ 72623-87-1	Basic oil - unspecified	< 4 %	- DMSO < 3 % (IP346)
****	Polyalphaolephine-based lubrication grease with silica thickener	< 2 %	-
64742-48-9	Kerosene (naphtha) - unspecified	0–5 %	Xn, R10, R65, R66

2.1.5 There has been a request for confidentiality of a substance according to Annex 3 of the decree ☐

2.1.6 A substance not dangerous has been indicated as confidential ☐

2.1.7 Other information
Description: Mixture of synthetic oil and natural minerals.

3. HAZARDS IDENTIFICATION

HUMAN HEALTH HAZARDS: No special hazards in normal using conditions. Contains compounds, for which there are exposure limit values in the working zone air. A long-term or repeated skin contact may desiccate the skin, which may cause skin inflammation. Oil mist irritates eyes and respiration tracks.

BURN AND EXPLOTION HAZARDS: Burning liquid.

ENVIRONMENTAL HAZARDS: Not readily biodegradable.

See also 5, 11, and 12.

4. FIRST AID MEASURES

4.1 Special instructions

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4.2 Inhalation

A person that has inhaled vapour is removed to fresh air. Give oxygen and mouth-to-mouth resuscitation if needed. Get medical assistance if symptoms persist.

4.3 Skin contact

Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention.

4.4 Eye contact

Flush eyes immediately with copious quantities of water for at least 10 minutes, including under eyelids by moving the eyes to extreme positions. If persistent irritation occurs, obtain medical attention.

4.5 Ingestion

Wash out mouth with water and obtain medical attention. DO NOT INDUCE VOMITING. If no nausea occurs, give 1 to 2 dl (3.4 to 6.8 oz) of cream or ice-cream as soon as possible and subsequently 50 to 100 g (1.8 to 3.5 oz) of carbo activatus.

4.6 Information for doctors or other first aid personnel

Treatment in accordance with the symptoms. In case of ingestion, aspiration to the lungs may cause mortal chemical pneumonia. See Empirical data on effects on humans, 11.5.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Foam and dry chemical powder. Carbon dioxide (CO_2), sand or earth for small fires.

5.2 Extinguishing media which must not be used for safety reasons

Must not be extinguished with a heavy water jet.

5.3 Special exposure hazards in a fire

Carbon monoxide, oxides of sulphur.
The vapour is heavier than the air and it thus spreads by the ground surface, due to which distant inflammation is possible.

5.4 Special protective equipment for fire-fighters

Applicable protection equipment. In case of fires inside a building, breathing apparatus is to be worn.

5.5 Other instructions

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Unauthorised persons must be evacuated from the area
See Handling at 7.1.
See Personal protection at 8.3.

6.2 Environmental precautions

Prevent from spreading or entering into drain, ditches, groundwater, rivers, and lakes by using sand, earth, or other appropriate barriers and absorption materials and by collecting the product. Inform local authorities of the accident. Stop the leak if possible without risks.

6.3 Methods for cleaning up

Absorb leakage into sand, earth, or other applicable absorbent. The absorbent shall be collected in an applicable container with due markings for further disposal. To be disposed in accordance with the local administrative instructions. See Disposal consideration, Clause 13.

6.4 Other instructions

Immediately inform the local authorities of an accident.

7. HANDLING AND STORAGE

7.1 Handling

When handling the product in drums, safety footwear and gloves should be worn. Prevent spillages. Take care of sufficient ventilation. If needed, use personal protection devices.

7.2 Storage

Keep tightly closed in cool, dry, well-ventilated place in the position specified by the package markings (vertical position) in the original packing. Avoid direct sunlight, heat sources, and strong oxidising agents.

Storage temperatures: 0 °C (32 °F) minimum.
Storage temperatures: 30 °C (86 °F) maximum.

Do not store consumer packages outdoors.

7.3 Specific use(s)

The product is mixed, according to separate instructions, with the fuel used in the mechanism to be treated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

8.1.1 HTP values

Oil mist in the air of the working zone 5 mg/m^3 (8 h)

8.1.2 Other limit values

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8.1.3 Limit values in other countries

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8.2 Exposure controls

8.2.1 Occupational exposure controls

Take care of sufficient ventilation. Wear personal protection if needed.
Wash hands before eating, drinking, smoking, and using WC. Do not carry any cloths, rags etc. containing the product in your pocket.

8.2.1.1 Respiratory protection

Not normally required. Use a respirator fitted with a combined A2/P2 filter (for organic gases and solvent vapours/dust) if needed.

8.2.1.2 Hand protection

Gloves (e.g. butyl rubber, multilayer plastic laminate). Avoid natural rubber gloves. Replace the gloves often enough.

8.2.1.3 Eye protection

Wear safety glasses if splashes are likely to occur. Use full face shield if needed.

8.2.1.4 Skin protection

Avoid all kinds of skin contact. Wear protective clothing if needed. Launder protective clothing and undergarments regularly.

8.2.2 Environmental exposure controls

Take care of the condition of containers and other equipment. Prepare for possible spillage by collecting basins, pavement of the company territory and embankments.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information (physical state, colour and odour)

Reddish oil-like liquid (suspension), in which minerals may precipitate on the bottom during storage. The product must be shaken properly before use until the precipitated particles are homogenously spread in the liquid.

9.2 Important health, safety and environmental information

9.2.1 pH

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9.2.2 Boiling point/boiling range

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9.2.3 Flash point

> 70 °C (> 158 °F)

9.2.4 Flammability (solid, gas)

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9.2.5 Explosive properties

9.2.5.1 Lower explosive limit

< 0.1 % volume

9.2.5.2 Upper explosive limit
< 0.3 % volume

9.2.7 Vapour pressure
Information not available.

9.2.8 Relative density
860-880 kg/m^3 (15 °C (59 °F))

9.2.9 Solubility

9.2.9.1 Water solubility
Extremely low (applies to part of components)

9.2.11 Viscosity
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9.3 Other information
Solidifying point < -20 °C (< -4 °F)

10. STABILITY AND REACTIVITY

Stable in normal using conditions.

10.1 Conditions to avoid
Extremes of temperature and direct sunlight

10.2 Materials to avoid
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10.3 Hazardous decomposition products
As a result of incomplete combustion, CO and CO_2 may be formed.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity
Information not available.

11.2 Irritation and corrosiveness
Information not available.

11.3 Sensitisation
Information not available.

11.4 Sub-acute, sub-chronic and prolonged toxicity
Information not available.

11.5 Empirical data on effects on humans
Prolonged and/or repeated skin contact may cause defatting of the skin, which may lead to skin irritation and possibly cause dermatitis, especially under conditions of poor personal hygiene.

11.6 Other information on health effects
Used oils may contain harmful impurities that have accumulated during their use. The impurities may present risks to health and the environment.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

12.1.1 Aquatic toxicity
Information not available.

12.1.2 Toxicity to other organisms
Information not available.

12.2 Mobility
Liquid under most environmental conditions. The product is lighter than water, and floats on it.

12.3 Persistence and degradability

12.3.1 Biodegradation
Information not available.

12.3.2 Chemical degradation
Information not available.

12.4 Bioaccumulative potential
Bioaccumulation is possible.

12.5 Other adverse effects
Used oils may contain harmful impurities that have accumulated during their use and that may present risks to health and the environment.

13. DISPOSAL CONSIDERATIONS

Waste containing the product is hazardous. To be disposed in accordance with the appropriate legislation and instructions of the appropriate authorities. When handling the waste, take into account the dangers caused by the product and take care of the necessary safety precautions, warning signs, and obligation of information.

14. TRANSPORT INFORMATION

14.1 UN number

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14.2 Packing group

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14.3 Land transport

14.3.1 Transport class

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14.3.2 Risk code

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14.3.3 Name according to bill of freight

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14.3.4 Other information

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14.4 Sea transport

14.4.1 IMDG class

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14.4.2 Correct technical name

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14.4.3 Other information

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14.5 Air transport

14.5.1 ICAO/IATA class

UN 1223 class 3

14.5.2 Correct technical name

Kerosene

14.5.3 Other information

Packing information Y309

15. REGULATORY INFORMATION

15.1 Information on the warning label

15.1.1 Letter code of the warning symbol and indications of danger for the preparation

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15.1.2 Names of the ingredients given on the warning label

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15.1.3 R phrases

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15.1.4 S phrases

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15.1.5 Special regulations on certain preparations

USED OILS: Avoid repeated skin contact. Take care of the packing and deliver used oil to appropriate waste disposal establishment.

15.2 National regulations

All the components are listed in EINECS or freed.

16. OTHER INFORMATION

16.1 List of the relevant R phrases

R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

16.2 Training advice

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16.3 Restrictions on use

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16.4 Further information

This information has to be available for all those who handle this product. The sheet is based on the current information and has been meant to respond to the health, safety, and environmental questions related to the product. This sheet is not to be given as a guarantee of any property of the product.

16.5 Sources of key data used

Estimation made on the basis of the information on the components. Neste Oil Oyj, Finland. Repsol YPF, Madrid, Spain. Research Institute of Geology, Finland.

16.6 Information which has been added, deleted or revised

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