

Date: January 23rd, 2008

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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 Universal Grease 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 equipment of different types			
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	<input checked="" type="checkbox"/>	
1.2.5	The chemical is used by the general public only	<input type="checkbox"/>	
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
*	Lithium complex	< 15 %	
74869-22-0	Mineral oil	> 85 %	
2.1.5	There has been a request for confidentiality of a substance according to Annex 3 of the decree	<input type="checkbox"/>	
2.1.6	A substance not dangerous has been indicated as confidential	<input type="checkbox"/>	
2.1.7	Other information		
	Description: Grease with lithium complex thickener without additives, in which the active component is a mixture of natural minerals and additives. The mineral oils in the product contain < 3% of DMSO-extract (IP 346).		

3.	HAZARDS IDENTIFICATION
	HUMAN HEALTH HAZARDS: No special hazard in normal using conditions. A long-term or repeated skin contact may desiccate the skin and cause skin cracking. Used grease may contain hazardous impurities.
	BURN AND EXPLOSION HAZARDS: Not classified as flammable, but will burn.
	ENVIRONMENTAL HAZARDS: Danger or pollution of soil and groundwater. Not readily biodegradable. Bioaccumulation is possible.
4.	FIRST AID MEASURES
4.1	Special instructions -
4.2	Inhalation A person that has inhaled smoke is removed to fresh air and rest. If persistent irritation occurs, obtain medical attention.
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 with copious quantities of water. If persistent irritation occurs, obtain medical attention.
4.5	Ingestion Do not induce vomiting. If strong cough or vomiting occurs, or if the ingested amount is large, obtain medical attention.
4.6	Information for doctors or other first aid personnel -
5.	FIRE-FIGHTING MEASURES
5.1	Suitable extinguishing media Foam, powder, carbon dioxide (CO ₂).
5.2	Extinguishing media which must not be used for safety reasons Direct water jet. Use of Halon extinguisher should be avoided for environmental reasons
5.3	Special exposure hazards in a fire Not flammable, but will burn. Irritating smoke formed in combustion.
5.4	Special protective equipment for fire-fighters Avoid breathing vapours. Use a breathing mask if the product is a participant in fire.
5.5	Other instructions -
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. Inform local authorities of the accident.
6.3	Methods for cleaning up Small quantities of waste can be absorbed in an absorbing material. Large spillages can be surrounded with a rampart of sand, earth, or other appropriate material and collected in appropriate closable containers 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 and proper handling equipment should be used in order to avoid prolonged skin contact. Prevent spillages. Spillage may cause a slipperiness.
7.2	Storage To be stored in the original packing. Keep the packing closed and dry. Avoid direct sunlight, heat sources, and strong oxidising agents.

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Storage temperatures: -20 °C (-4 °F) minimum.
Storage temperatures: 40 °C (104 °F) maximum.

7.3

Specific use(s)

The mixture is mixed, according to separate instructions, with the lubricant used in the mechanism to be treated or it is used as such in the mechanism.

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/m³ (8 h)

8.1.2 Other limit values

-

8.1.3 Limit values in other countries

8.2 Exposure controls

8.2.1 Occupational exposure controls

Oil mist does not occur in normal handling and using conditions.
Wash hands before eating, drinking, smoking, and using WC.

8.2.1.1 Respiratory protection

Not needed in normal handling and using conditions.

8.2.1.2 Hand protection

Rubber gloves, if the contact is prolonged or repeated.

8.2.1.3 Eye protection

No special precautions are needed.

8.2.1.4 Skin protection

Avoid prolonged or repeated skin contact with protective clothing.

8.2.2 Environmental exposure controls

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information (physical state, colour and odour)

Yellowish or greenish grease-like mixture.

9.2 Important health, safety and environmental information

9.2.1 pH

-

9.2.2 Boiling point/boiling range

-

9.2.3 Flash point

> 150 °C (302 °F)

9.2.4 Flammability (solid, gas)

-

9.2.5 Explosive properties

9.2.5.1 Lower explosive limit

-

9.2.5.2 Upper explosive limit

-

9.2.6 Oxidising properties

-

9.2.7 Vapour pressure

-

9.2.8 Relative density

< 1000 kg/m³

9.2.9 Solubility

9.2.9.1 Water solubility

not soluble

9.2.9.2 Fat solubility (solvent-oil to be specified)

-

9.2.10 Partition coefficient: n-octanol/water

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- Information not available.
- 9.2.11 Viscosity**
Information not available.
- 9.2.12 Vapour density**
Information not available.
- 9.2.13 Evaporation rate**
Information not available.
- 9.3 Other information**

10. STABILITY AND REACTIVITY

- Stable in recommended storing and using conditions.
- 10.1 Conditions to avoid**
Extremes of temperature.
- 10.2 Materials to avoid**
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- 10.3 Hazardous decomposition products**
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11. TOXICOLOGICAL INFORMATION

- 11.1 Acute toxicity**
Toxicological data have not been determined specifically for this product.
- 11.2 Irritation and corrosiveness**
Slightly irritant; skin, (estimation)
Slightly irritant; eyes, (estimation)
- 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**
Information not available.
- 11.6 Other information on health effects**
Used greases may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. All used grease should be handled with caution and skin contact should be avoided as far as possible.

12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity**
Not regarded as hazardous for the environment. Accidental major leakages or repeated small leakages may be hazardous.
- 12.1.1 Aquatic toxicity**
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- 12.1.2 Toxicity to other organisms**
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- 12.2 Mobility**
The product is lighter than water, and floats on it. If the product enters the soil, major part of it will adsorb to soil particles.
- 12.3 Persistence and degradability**
- 12.3.1 Biodegradation**
Not readily biodegradable.
- 12.3.2 Chemical degradation**
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- 12.4 Bioaccumulative potential**
Bioaccumulation is possible
- 12.5 Other adverse effects**
Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components.

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 dan-

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gers 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 -
14.2	Packing group -
14.3	Land transport
14.3.1	Transport class -
14.3.2	Risk code -
14.3.3	Name according to bill of freight -
14.3.4	Other information -
14.4	Sea transport
14.4.1	IMDG class -
14.4.2	Correct technical name -
14.4.3	Other information -
14.5	Air transport
14.5.1	ICAO/IATA class -
14.5.2	Correct technical name -
14.5.3	Other information -
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 -
15.1.2	Names of the ingredients given on the warning label -
15.1.3	R phrases -
15.1.4	S phrases -
15.1.5	Special regulations on certain preparations -
15.2	National regulations All the components are listed in EINECS or freed.
16.	OTHER INFORMATION
16.1	List of the relevant R phrases -
16.2	Training advice -
16.3	Restrictions on use -
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

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Estimation made on the basis of the information on the components. Axel Christiernsson Ab, Nol, Sweden. Research Institute of Geology, Finland.

16.6 Information which has been added, deleted or revised