


Safety data sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Switzerland

Substance: Oil for Vacuum pump

Status: 19.12.2023 Rev.-Nr. 2.01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1 Product identifier Trade name : <ul style="list-style-type: none"> - DV-05 / Oil for Vacuum pump standard 1/2 l / 9881844 - DV-06 / Oil for Vacuum pump standard 1Lt. / 9881843 - DV-06-Y / Oil for Vacuum pump Royal-2, RD-4/6/8, viscosity 10 mm²/sec at 40°C (1 l) /4492871 - DV-08 / Oil for Vacuum pump 5 l can / 9881841 UFI No.: J68Y-RW5Q-R70S-43P4	
1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the preparation: Industrial use only. Lubricants, greases, release products	
1.3 Details of the supplier of the safety data sheet REFCO Manufacturing Ltd. Industriestrasse 11 6285 Hitzkirch Switzerland Tel. +41 41 919 72 82 Fax +41 41 919 72 83 E-Mail: info@refco.ch	
1.4 Emergency telephone number Toxicological Info-Centre CH-Zurich Telephone number in urgent matters: 145 oder +41 44 251 51 51 Not urgent matters: +41 44 251 66 66	
2. HAZARDS IDENTIFICATION	
2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008 Asp. Tox. 1 H304 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.	
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.	
Hazard pictograms	
Signal word	Danger
Hazard statements: H304 May be fatal if swallowed and enters airways.	
Precautionary statements Response : P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.	
Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Supplemental labelling elements: Not applicable	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable	
2.3 Other hazards	

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The product meets the criteria for PBT or vPvB substances according to Annex XIII of Regulation (EC) 1907/2006 Annex XIII:

This mixture does not contain any substances classified as PBT or vPvB substances.

Other hazards not leading to classification:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product / ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATE's	Type
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	REACH #: 01-2119474878-16 EG: 276-737-9 CAS: 72623-86-0 Verzeichnis: 649-482-00-X	≥75 - ≤90	Asp. Tox. 1, H304	-	[1] [2]
Distillates (petroleum), heavy hydrocracked	REACH #: 01-2119486951-26 EG: 265-077-7 CAS: 64741-76-0 Verzeichnis: 649-453-00-1	≥15 - ≤25	Asp. Tox. 1, H304	- See Section 16 for the full text of the H-statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type:

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

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4.1 Description of first aid measures

After eye contact:	Immediately flush eyes with plenty of water and occasionally lift upper and lower eyelids. Lift upper and lower eyelids occasionally. Check for contact lenses and remove if present. Rinse continuously for at least 10 minutes. Seek medical attention if irritation occurs.
After inhalation:	Avoid inhalation of vapour or mist. In case of non-existent or irregular breathing or in the event of respiratory arrest, artificial respiration or If breathing is absent or irregular, or if respiratory arrest occurs, administer artificial respiration or oxygen by trained personnel. It may be dangerous for the first-aider to perform mouth-to-mouth ventilation. mouth-to-mouth ventilation. Seek medical help if health problems persist or are severe. If the health impairment persists or is severe. In case of unconsciousness If unconscious, place in recovery position and seek medical help immediately. Keep airway open. Loosen tight-fitting clothing (e.g. collar, tie, belt or waistband).
After skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
After ingestion:	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

eye contact: No specific data.
 Inhalation: No specific data.
 Skin contact: No specific data.
 Ingestion: Symptoms may include: Nausea and vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician:
 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
 Specific treatments: No specific treatment.

5. FIREFIGHTING MEASURES

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5.1 Extinguishing media

Suitable extinguishing media:

Use an extinguishing agent that is also suitable for adjacent fires.

Unsuitable extinguishing media:

None known.

5.2 Special hazards arising from the substance or mixture

When heated or on fire, a pressure rise occurs and the container may burst.

Hazardous combustion products: No specific data.

5.3 Advice for firefighters

Special protective actions for firefighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for firefighting:

Firefighters should wear appropriate protective clothing and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Clothing for firefighters (including helmet, protective boots and protective gloves) that complies with European Standard EN 469 gives basic protection in case of accidents with chemicals.

6. ACCIDENTAL RELEASE MEASURES

Personnel not trained for emergencies:

No action should be taken that involves personal risk or has not been adequately trained. Evacuate environment. Deny access to non-essential and unprotected personnel. Do not touch or walk on spilled substance. Avoid inhalation of vapour or mist.

Avoid breathing vapour or mist. Ensure adequate ventilation. Wear respirator if ventilation is inadequate. Put on suitable personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small quantities released:

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large quantities released:

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

See section 1 for emergency contact information.

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See section 8 for information regarding appropriate personal protective equipment.
See section 13 for further information on waste treatment.

7. HANDLING AND STORAGE

The information in this section contains general advice and guidance. The list of Identified uses in section 1 should be consulted for any application-specific information in the exposure scenario(s). exposure scenarios.

7.1 Precautions for safe handling

Protective measures:

Put on suitable protective equipment (see section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapour or mist. Store in the original container or an approved replacement container or an approved replacement container made of a compatible material. Keep tightly closed when not in use. Empty containers contain product residues and may be hazardous. Do not reuse containers.

Advice on general work hygiene:

Eating, drinking and smoking should be prohibited in areas where this substance is used, stored or processed. Persons handling the substance must wash their hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering the eating area. See section 8 for further information on hygiene measures.

7.2 Conditions for safe storage, taking into account incompatibilities.

Store between the following temperatures: -10 to 40°C (14 to 104°F). Shelf life: 36 months. Store According to local regulations. Store only in the original container. Protect from direct sunlight. Store only in dry, cool and well-ventilated areas. Do not store together with incompatible substances (see section 10) or with food or drink. Store under lock and key. Keep containers tightly closed and sealed until use. Containers which have been opened should be carefully closed and Store upright to prevent leakage. Do not store in unlabelled containers. To avoid contamination of the Use suitable containers to avoid contamination of the environment. Before handling or use, see section 10 on incompatible materials.

7.3 Specific end uses

Recommendations: Not applicable.

Specific solutions for the industrial sector: Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section provides general advice and guidance. Information provided is based on typical anticipated uses of the product. Additional measures may be required for handling large quantities or other uses that may significantly increase worker exposure or release to the environment.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	SUVA (Switzerland, 1/2021). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

Reference should be made to monitoring standards such as the following: European standard DIN EN 689 (Workplace atmospheres - Guidance for determining inhalation exposure to chemical agents for comparison with limit values and

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measurement strategy) European standard DIN EN 14042 (Workplace atmospheres - Guidance for the application and use of methods and equipment for the determination of chemical and biological agents).
European standard DIN EN 482 (Workplace atmospheres - General requirements for the performance of methods for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances is also required.

DNELs/DMELs

No DNELs/DMELs values are available.

PNECs

No PNECs values are available.

8.2 Exposure controls and monitoring (cont.)

Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures:

Hygienic measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: A respirator is not needed under normal and intended conditions of product use. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Shape	Liquid
Colour	Yellow
Odour	Characteristic
Odour threshold	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flammability (solid, gaseous)	Not available
Upper/lower flammability and explosion limits	Not available
Flash point	Open crucible: 190°C
Ignition temperature	> 500 °C (DIN 51794 / ASTM E659)
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH-value	Not available
Viscosity	Kinematic (40°C): 10 mm ² /s
Solubility with water	Not applicable
Miscible with water	No
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure	Not available
Relative density	Not available
Density at 20 °C	0.832 g/cm ³ [20°C]
Vapour density	Not available
Explosive properties	Not available
Oxidising properties	Not available
Median particle size	Not available

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Miscible with water : No.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific data concerning reactivity are available for this product or its ingredients.

10.2 Chemical stability

Shelf life 36 months

10.3 Possibility of hazardous reactions

Under normal storage conditions and use, no hazardous reactions will occur.

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10.4 Conditions to avoid

No specific data available.

10.5 Incompatible materials

No specific data available.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, no hazardous decomposition products should be formed.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	LD50 Dermal	Rabbit	>2000 mg/kg	-
Distillates (petroleum), heavy hydrocracked	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion / Summary: Not available

Acute toxicity estimates

N/A

Irritation/corrosion

Conclusion/Summary: Not available.

Sensitisation

Conclusion/Summary: Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion / Summary: Not available.

Teratogenicity

Conclusion / Summary: Not available.

Specific target organ toxicity at single exposure.

Not available.

Specific target organ toxicity in case of repeated exposure

Not available.

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Aspiration hazard

Product / ingredient name	Result
Lubricating oils (petroleum), C15-30, hydrotreated neutral oilbased	ASPIRATION HAZARD - Category 1
Distillates (petroleum), heavy hydrocracked	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure: Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
 Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.
 Inhalation: No specific data.
 Skin contact: No specific data.
 Ingestion: Adverse symptoms may include the following: nausea or vomiting

Delayed and immediate effects and chronic effects after short or prolonged exposure.

Short-term exposure:

Possible immediate effects: Not available.

Possible delayed effects: Not available.

Long-term exposure:

Possible immediate effects: Not available.

Possible delayed effects: Not available.

Possible chronic health effects: Not available.

Conclusion / Summary: Not available.

General: No particular effects or hazards known.
Carcinogenicity: No particular effects or hazards known.
Mutagenicity: No particular effects or hazards known.
Reproductive toxicity: No specific effects or hazards known.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

Conclusion / Summary: Not available.

12.2 Persistence and degradability

Conclusion / Summary: Not available.

12.3 Bioaccumulative potential

Conclusion / Summary: Not available.

12.4 Mobility in soil

Soil/water partition coefficient (KOC): Not available.

Mobility: Not available.

12.5 Results of the assessment PBT and vPvB

This mixture does not contain any substances classified as PBT or vPvB.

12.6 Endocrine disrupting properties

No further information available.

12.7 Other adverse effects

No particular effects or hazards known.

13. DISPOSAL CONSIDERATIONS

The information in this section contains general advice and guidance. The list of Identified uses in section 1 should be consulted for any application-specific information in the exposure scenario(s). Exposure Scenarios should be consulted.

13.1 Waste treatment methods

Disposal methods:

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: Yes.

European waste catalogue (EWC)

Waste code: 13 02 05*

Waste designation : Mineral-based non-chlorinated machine, gear and lubricating oils.

Packaging

Methods of disposal :

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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<p>14. TRANSPORT INFORMATION</p> <p>14.1 UN- Number: ADR, ADN, IMDG, IATA Not applicable</p> <p>14.2 UN proper shipping name ADR, ADN, IMDG, IATA Not applicable</p> <p>14.3 Transport hazard classes ADR, ADN, IMDG, IATA Class Not applicable</p> <p>14.4 Packing group ADR, IMDG, IATA not applicable</p> <p>14.5 Environmental hazards ADR, IMDG, IATA No</p> <p>14.6 Special precautions for user Transport on the premises: transport only in closed containers which are upright and firm. Persons transporting the product must be instructed in the correct behaviour in case of accidents, leakage or spillage.</p> <p>14.7 Transport in bulk by sea in accordance with IMO instruments. Not applicable.</p>	<p>15. REGULATORY INFORMATION</p> <p>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>EC Regulation (EC) No 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation Annex XIV None of the components is listed.</p> <p>Substances of very high concern None of the components is listed.</p> <p>Annex XVII - Restriction on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.</p> <p>Other EU provisions: Industrial emissions (integrated pollution prevention and control) - Air. Not listed</p> <p>Industrial emissions (integrated pollution prevention and control) - Water Not listed.</p> <p>Ozone depleting substances (1005/2009/EU) Not listed.</p> <p>Prior Informed Consent (PIC) (649/2012/EU). Not listed.</p>
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Persistent organic pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National Directive:

VOC content: Exempt.

SZID: 527501-53

Classification of water-polluting liquids References: Class B.

International regulations:

Chemical Weapons Convention, Schedule I, II & III chemicals.

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants.

Not listed.

Rotterdam Convention on the Prior Informed Consent (PIC) Procedure.

Not listed.

UNECE Aarhus Protocol on Persistent Organic Compounds (POPs) and Heavy Metals.

Not listed.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16. OTHER INFORMATION

The information is based on our present knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship.

Abbreviations and acronyms : ATE = Estimated Acute Toxicity

CLP = Regulation on Classification, Labelling and Packaging [Regulation (EC) No 1272/2008].

DMEL = Derived minimum effect level

DNEL = Derived no-effect limit value

EUH phrase = CLP-specific hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Estimated Non-Effect Concentration

RRN = REACH registration number

SGG = Separation group

vPvB = Very persistent and very bioaccumulative

Procedure for deriving the classification according to Regulation (EC) 1272/2008 (CLP/GHS)

Classification: Tox. 1, H304 Calculation method Reason: Calculation method

Full text of abbreviated H-phrases

H304 May be fatal if swallowed and enters airways.

Full text of the classifications [CLP/GHS]

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

IP346:

The mineral oil raffinates contained are not subject to labelling. The polycyclic aromatics (PCA) content is < 3% according to IP346 (DMSO extract).



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Department issuing data sheet: Quality Management

Note from the publisher:

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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