

SAFETY DATA SHEET

DeLaval Vacuum pump oil

FS2001

According to EC Directive (EC) No. 1907/2006 (No. 453/2010)

Preparation Date: 01-Oct-2014

Revision Date: Not applicable

Revision Number:

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name DeLaval Vacuum pump oil

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Lubricant

Uses advised against Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Contact Manufacturer	Supplier
DeLaval N.V.	DeLaval Limited
Industriepark-Drongen 10	Oak House, Pascal Close
9031 Gent	St. Mellons
Belgium	CARDIFF CF3 OLW
	UK
Tel. +32 9 280 91 21	Tel (29) 2077 5800
Email MSDS.EU@delaval.com	

1.4. Emergency Telephone Number

Emergency Telephone Number 01865407333

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to REGULATION (EC) No 1272/2008

For the full text of the H phrases mentioned in this Section, see Section 16

Not Hazardous.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

Not Hazardous.

2.2. Label Elements

Labeling according to REGULATION (EC) No 1272/2008

Not Hazardous

Precautionary statements P102 - Keep out of reach of children

Labeling according to Directive 67/548/EEC or 1999/45/EC

Not Hazardous.

S-Phrases

S2 - Keep out of the reach of children

2.3. Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixture

Chemical nature of the preparation.

Chemical Name	EC No.	CAS-No	Weight %	Classification	EU - GHS Substance Classification	Reach Registration Number
Petroleum distillates, solvent dewaxed heavy paraffinic (IP 346 DMSO extract < 3%)	265-169-7	64742-65-0	90 - 100	-	-	01-2119471299-27
Petroleum distillates, solvent-dewaxed heavy paraffinic (IP 346 DMSO extract < 3%)	EEC No. Present	64742-65-0	10 - 20	-	Asp. tox. 1 (H304)	01-2119471299-27

For the full text of the R phrases mentioned in this Section, see Section 16

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4. FIRST AID MEASURES

4.1. Description of first-aid measures.

Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, get medical advice/attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.
Ingestion	Rinse mouth. Move person to fresh air. If symptoms persist, call a physician. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.
Inhalation	Move to fresh air. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

Acute Effects	Defatting to skin. May cause skin irritation.
Delayed Effects	None known
Effects of overexposure	Prolonged skin contact may cause skin irritation. Repeated exposure may cause skin dryness or cracking.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Dry chemical, Carbon dioxide (CO₂), alcohol-resistant foam, Water spray

Extinguishing media which must not be used for safety reasons

Water spray jet. Water. Cool containers / tanks with water spray.

5.2. Special hazards arising from the substance or mixture**Specific hazards arising from the chemical**

Carbon dioxide (CO₂). Carbon monoxide. Sulphur oxides.
Heating of containers may cause pressure rise, with risk of bursting.

5.3. Advice for firefighters**Protective Equipment and Precautions for Firefighters**

Evacuate personnel to safe areas. Any action only if without personal risk.

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear

6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Any action only if without personal risk. Evacuate personnel to safe areas. Use personal protective equipment.

Other Information

See Section 12 for more information

Advice for emergency responders

For personal protection see section 8

6.2. Environmental Precautions

Avoid dispersal of spilt material into waterways, drains, and sewers. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

Stop leaks if without risk. Prevent product from entering drains. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel or sweep up. Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

See Section 12 for more information

For personal protection see section 8

Section 13. Disposal considerations

7. HANDLING AND STORAGE**7.1. Precautions for Safe Handling****Handling**

Wear personal protective equipment. Do not eat, drink or smoke when using this product.

General Hygiene Considerations

When using, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities**Storage**

Store in accordance with local regulations. Protect from sunlight and store in well-ventilated place. Keep tightly closed in a dry and cool place. Keep in properly labelled containers. Prevent release to the environment.

7.3. Specific End Use(s)**Exposure Scenario**

Not applicable

Other Guidelines

Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Chemical Name	EU	United Kingdom	France	Spain	Germany
Petroleum distillates, solvent dewaxed heavy paraffinic (IP 346 DMSO extract < 3%) 64742-65-0	TWA: 5 mg/m ³ (oil mist)				
Chemical Name	Sweden	Bulgary	Estonia	Hungary	

Petroleum distillates, solvent dewaxed heavy paraffinic (IP 346 DMSO extract < 3%) 64742-65-0	AFS 2005:17 (Sweden, 12/2010) TWA: 1mg/m ³ 8 hours (mist and fume) STEL: 3mg/m ³ 15 minutes (mist and fume)			
Petroleum distillates, solvent-dewaxed heavy paraffinic (IP 346 DMSO extract < 3%) 64742-65-0	AFS 2005:17 (Sweden, 12/2010) TWA: 1mg/m ³ 8 hours (mist and fume) STEL: 3mg/m ³ 15 minutes (mist and fume)			

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls**Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Use only with adequate ventilation to keep exposures below recommended exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment**Eye Protection**

If splashes are likely to occur, wear: Safety glasses with side-shields. Face-shield.

Skin Protection

Wear protective gloves/clothing.

Hand Protection

Impervious gloves, (EN 374)

Respiratory Protection

Ensure adequate ventilation. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls

Use only with adequate ventilation to keep exposures below recommended exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****Physical state**

Liquid

Appearance

Clear, Blue

Odor

Characteristic

Odor Threshold

No information available

PropertyValues**pH**

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Melting Point/Range

< -21 °C

Boiling Point/Range

> 300 °C (oil base)

Flash Point

> 200 °C (ASTM D92, COC)

Evaporation Rate

No data available

Flammability (solid, gas)

Not applicable

Upper Explosion Limit

Not known

Lower Explosion Limit

Not known

Vapor Pressure

<0.01 kPa (20 °C)

Vapor Density

No data available

Relative Density

0.88 (15 °C)

Water Solubility

Insoluble in water

Solubility in other solvents

No data available

Solubility

Insoluble in water

Partition coefficient: n-octanol/water

No data available

Autoignition Temperature

> 300 °C (oil base)

Decomposition temperature

> 300 °C

Viscosity59 mm²/s (kinematic, 40 °C)**Explosive Properties**

Not applicable

Oxidizing Properties

Not applicable

9.2. Other Information

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical Stability Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions Possibility of hazardous reactions

None under normal use.

10.4. Conditions to Avoid Keep away from children.

10.5. Incompatible Materials Incompatible Materials

strong oxidizing agents

10.6. Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Inhalation

No known significant effects or critical hazards.

Eye contact

No known significant effects or critical hazards.

Skin contact

Defatting to skin. May cause skin irritation.

Ingestion

No known significant effects or critical hazards.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, solvent dewaxed heavy paraffinic (IP 346 DMSO extract < 3%)	> 5000 mg/kg	> 5000 mg/kg	5.53 mg/l
Petroleum distillates, solvent-dewaxed heavy paraffinic (IP 346 DMSO extract < 3%)	> 5000 mg/kg	> 5000 mg/kg	5.53 mg/l

Irritation

Prolonged skin contact may cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Corrosivity

No information available.

Sensitization

No information available.

Mutagenic effects

Contains no ingredient listed as a mutagen.

carcinogenic effects

None known.

Reproductive Effects

None known

Developmental Effects

None known

STOT - single exposure

No information available

STOT-repeated exposure

No information available

Aspiration Hazard

No information available

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

No known significant effects or critical hazards. Avoid subsoil penetration. Do not contaminate surface water.

Chemical Name	Algae/aquatic plants	Fish	Microtox	Waterflea
Petroleum distillates, solvent dewaxed heavy paraffinic (IP 346 DMSO extract < 3%)		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50

Petroleum distillates, solvent-dewaxed heavy paraffinic (IP 346 DMSO extract < 3%)		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
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12.2. Persistence and degradability

Not readily biodegradable

12.3. Bioaccumulative potential.

No information available

Chemical Name	Partition coefficient
Petroleum distillates, solvent-dewaxed heavy paraffinic (IP 346 DMSO extract < 3%)	> 3

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

Contaminated Packaging

Dispose of in accordance with local regulations.

EWC waste disposal No

13 02 05: mineral-based non-chlorinated engine, gear and lubricating oils

14. TRANSPORT INFORMATION**IMDG/IMO**

14.1. UN-No	Not regulated
14.2. Proper shipping name	Not regulated
14.3. Hazard Class	Not regulated
14.4. Packing Group	Not regulated
14.5. Environmental hazard	None
14.6. Special Provisions	None
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

ADR/RID

14.1. UN-No	Not regulated
14.2. Proper shipping name	Not regulated
14.3. Hazard Class	Not regulated
14.4. Packing Group	Not regulated
14.5. Environmental hazard	None
14.6. Special Provisions	None
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

IATA/ICAO

14.1. UN-No	Not regulated
14.2. Proper Shipping Name	Not regulated
14.3. Hazard Class	Not regulated
14.4. Packing Group	Not regulated
14.5. Environmental hazard	None

14.6. Special Provisions

None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Legislations**

Reg.1907/2006-REACH

Reg.1272/2008 On classification, packaging and labeling of dangerous substances and preparations

Reg.453/2010 That modify REACH

*International Inventories***EINECS/ELINCS**

All components are listed or exempted

*Legend***EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**15.2. Chemical Safety Assessment**

No data available.

16. OTHER INFORMATION**Text of R phrases mentioned in Section 3**

No information available

Full text of H-Statements referred to under sections 2 and 3

H304 - May be fatal if swallowed and enters airways

Key literature references and sources for datawww.ChemADVISOR.com/**Preparation Date:**

01-Oct-2014

Revision Note**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet