



GB

1 / 6

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision: 15.05.2009 Replaces the version of: 05.05.2004 PDF date: 27.05.2010
Ritchie High Vacuum Pump Oil 1.000 ml Art.: 8FX 351 215-011

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

Identification of the substance or preparation

Ritchie High Vacuum Pump Oil 1.000 ml
Art.: 8FX 351 215-011

Use of the substance/preparation

Lubricant

Refer to description of material or preparation.

Company/undertaking identification

Hella KGaA Hueck & Co, Rixbecker Str. 75, D-59552 Lippstadt
Telephone +49 (0) 2941 38 0, Fax +49 (0) 2941 38 7081
www.hella.de

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

Emergency telephone

Advisory office in case of poisoning:

Tel.:
+49 228 / 19240

Telephone number of the company in case of emergencies:

Tel. +49 (0) 2941 38 1562

2. HAZARDS IDENTIFICATION

To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

To the environment

See point 12.

Product can compose a film on the water surface, which can prevent oxygen exchange.

Hydrocarbons can be harmful to water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Gen. description:

Hydrocarbon mixture
CAS 64741-88-4/64742-65-0

Chemical name			
content %	Symbol	Chemical name	EINECS, ELINCS
	Registration number (ECHA)	Classification categories / Indications of danger:	
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4. FIRST AID MEASURES

4.1 Inhalation



GB

2 / 6

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
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Supply person with fresh air and consult doctor according to symptoms.

4.2 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

4.4 Ingestion

Do not induce vomiting. Consult doctor immediately.

4.5 Special resources necessary for first aid

Eye washout

Indications for the physician:

Symptomatic treatment

Viskosität: 100 - 400 SUS/100°C

Ingestion:

Gastric lavage

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Dry extinguisher

CO₂

Water jet spray

5.2 Extinguishing media which shall not be used for safety reasons

n.c.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Irritating vapours

Toxic pyrolysis products.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply.

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Avoid inhalation, and contact with eyes or skin.

Ensure sufficient ventilation.

6.2 Environmental precautions

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Observe directions on label and instructions for use.

Danger - risk of slipping.

Avoid inhalation, and contact with eyes or skin.

Ensure sufficient ventilation.

In the event of contact with the hot product:



3 / 6

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Keep away from sources of ignition - Do not smoke.

7.2. Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.
Store product closed and only in original packing.

Special storage conditions:

See point 10
Protect against moisture and store closed.
Do not store over 48°C.
Protect from direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

Chemical Name	Oil mist, mineral	Content %:
WEL-TWA: 5 mg/m3 (ACGIH)	WEL-STEL: 10 mg/m3 (ACGIH)	---
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Respiratory protection:

Normally not necessary.

In aerosol misting:

On vapour formation:

Gas mask filter A (EN 14387)

Hand protection:

With short-term contact:

Rubber gloves (EN 374).

Eye protection:

Tight fitting protective goggles with side protection (EN 166).

When dealing with heated material:

Tight fitting protective goggles with side protection (EN 166).

Face protection (EN 166)

According to operation.

Tight fitting protective goggles with side protection (EN 166).

Face protection (EN 166)

Skin protection:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Neoprene

If applicable

Apron

Boots (EN ISO 20347)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

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Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environmental exposure controls

n.av.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Physical state: Liquid
Colour: Light
Odour: Mild

9.2. Important health, safety and environmental information

Boiling point/boiling range (°C): n.av.
Melting point/melting range (°C): n.av.
Flash point (°C): 208°C ASTM D-93, 215°C Cleveland
Minimum limit of explosion: n.a.
Maximum limit of explosion: n.a.
Vapour pressure: < 0,01 mmHg/20°C
Density (g/ml): 7,25 Lbs/gal.
Water solubility: Insoluble
Vapour density (air = 1): > 1
Viscosity: 100 - 400 SUS/100°C, 31 cSt/40°C

10. STABILITY AND REACTIVITY

Conditions to avoid

See point 7
Stable when handled and stored correctly.
Heating, open flame, ignition sources

Materials to avoid

See point 7
Avoid contact with strong oxidizing agents.

Hazardous decomposition products

See point 5.3

11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg): > 5000
Inhalation, LC50 rat inhal.(mg/l/4h): n.av.
Skin contact, LD50 rat dermal (mg/kg): > 2000, Rabbit
Eye contact: n.av.

Delayed and chronic effects

Sensitization: n.c.
Carcinogenicity: n.c.
Mutagenicity: n.c.
Reproductive toxicity: n.c.
Narcosis: n.c.

Further information

No classification according to calculation procedure.
The following may occur:
Irritation of the eyes
With long-term contact:
Dermatitis (skin inflammation)
Drying of the skin.



GB

5 / 6

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
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Irritation of the skin.
Gastrointestinal disturbances
Diarrhoea
Irritation of the respiratory tract
In case of skin injury by high pressure, a risk of penetration of lubricant into the skin exists.
Effect on the central nervous system
Lung damage
Other dangerous properties cannot be ruled out.

12. ECOLOGICAL INFORMATION

Persistence and degradability:	n.a.
Behaviour in sewage plants:	Mechanical precipitation possible.
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.
Mobility:	n.av.
Accumulation:	n.av.
Results of PBT assessment	
n.av.	
Other adverse effects:	n.av.

13. DISPOSAL CONSIDERATIONS

13.1. for the material / preparation / residue

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.
EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

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

Recommendation:

Pay attention to local and national official regulations

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Empty container completely.

Untampered packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

14. TRANSPORT INFORMATION

General statements

UN-Number: n.a.

Road/Rail-transport (ADR/RID)

Class/packing group: n.a.

Classification code: n.a.

LQ: n.a.

Tunnel restriction code:

Transport by sea

IMDG-code: n.a. (class/packing group)

Marine Pollutant: n.a.

Transport by air

IATA: n.a. (class/secondary danger/packing group)

Additional information:

Non-dangerous material according to Transport Regulations.

15. REGULATORY INFORMATION



GB

6 / 6

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Ritchie High Vacuum Pump Oil 1.000 ml Art.: 8FX 351 215-011

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: Not applicable
Indications of danger: ---
R-phrases:

S-phrases:

Additions:
Observe restrictions: n.a.
VOC 1999/13 n.a.

16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany): 10
Revised points: 1 - 16 REACH

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40
AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)
VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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