

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: RENOLIN ZAF 46 HV

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

Identified uses: Lubricant

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS LUBRICANTS (UK) PLC.

New Century Street

Hanley

Stoke-on-Trent, Staffordshire, ST1 5HU

UK

Telephone: +44 (0) 1782 203700

Contact Person: Product Safety department Telephone: +44 (0) 1782 203700

E-mail: product.safety@fuchs-oil.com

1.4 Emergency telephone number: +44 (0) 1782 203700

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

EUH210: Safety data sheet available on request.

2.3 Other hazards:By handling of mineral oil products and chemical products no particular

hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the

environment without control.

SECTION 3: Composition/information on ingredients

Issue Date: 24.04.2015 Revision Date: 22.02.2016 Print date:: 22.02.2016

Print date:: 22.02.2016 SDS GB - EN - 00000000600663414 Version: 1.1



3.2 Mixtures

General information: Mixture containing severely refined base oils and additives.

Chemical name	Identifier		REACH Registration No.	Notes
Base oil, low viscous	EINECS: 265-157-1	1,00 - <10,00%	01-2119484627-25	
Phenolic antioxidant agent	EINECS: 204-884-0	0,10 - <0,25%	01-2119490822-33	
Alkylen amine	EINECS: 204-015-5	0,01 - <0,25%		

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Classification

Chemical name	Identifier	Classification	
Base oil, low viscous	EINECS: 265-157-1	CLP: Asp. Tox. 1;H304	
Phenolic antioxidant agent	EINECS: 204-884-0	CLP: Aquatic Chronic 1;H410, Skin Irrit. 2;H315	
Alkylen amine	EINECS: 204-015-5	CLP: Asp. Tox. 1;H304, STOT RE 2;H373, Skin Corr. 1B;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400 Aquatic Chronic 1;H410, Acute Tox. 4;H302, STOT SE 3;H335; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10	

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

General: Change clothes and shoes contaminated or soaked by the product. Never

put rags contaminated by the product into clothing pockets.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and

delayed:

May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

SDS GB - EN - 000000000600663414

Issue Date: 24.04.2015 Revision Date: 22.02.2016

Version: 1.1 Print date:: 22.02.2016

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



5.1 Extinguishing media

Suitable extinguishing

media:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant

added

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or

mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting

procedures:

No data available.

Special protective

equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions:

Prevent from spreading (e.g. by binding or oil barriers).

6.3 Methods and material for containment and cleaning

up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal

binders, sawdust).

6.4 Reference to other

sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on

disposal.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

7.2 Conditions for safe storage,

including any incompatibilities:

Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols. Do not heat up to temperatures close to the flash point.

7.3 Specific end use(s): No data available.

Storage Class: 10, Combustible liquids

Issue Date: 24.04.2015 Revision Date: 22.02.2016 Print date:: 22.02.2016

SDS GB - EN - 000000000600663414



SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

8.2 Exposure controls

Appropriate engineering

controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information: Wash hands before breaks and after work. Use personal protective

> equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should

be adhered to inhandling the chemicals or the mineral oil products.

Safety glasses (EN 166) recommended during refilling. **Eye/face protection:**

Skin protection

Hand Protection: Material: Nitrile butyl rubber (NBR). Avoid long-term and repeated skin

> contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to

be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser

pockets. Wear suitable protective clothing.

Respiratory Protection: Seek advice from local supervisor. Ensure good ventilation/exhaustion at

the workplace. Avoid breathing vapour/ aerosol.

Thermal hazards: Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties **Appearance**

Issue Date: 24.04.2015 Revision Date: 22.02.2016 Print date:: 22.02.2016

SDS GB - EN - 000000000600663414

Version: 1.1



Physical state:liquidForm:liquidColor:Brown

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: not applicable

Freezing point: Not applicable for mixtures

Boiling Point: No data available.

Flash Point: > 100 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)-:

Flammability Limit - Lower (%)-:

Vapor pressure:

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Density: 0,87 g/cm3 (15 °C)

Solubility(ies)

Solubility in Water: Insoluble in water
Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature: Value not relevant for classification

Decomposition Temperature: Value not relevant for classification

Kinematic viscosity: 46 mm2/s (40 °C)

Explosive properties:Value not relevant for classification
Oxidizing properties:
Value not relevant for classification

9.2 Other informationNo data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal temperature conditions and recommended use.

10.2 Chemical Stability: No data available.

10.3 Possibility of hazardous

reactions:

None under normal conditions.

10.4 Conditions to avoid: Avoid heat or contamination.

10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

Issue Date: 24.04.2015 Revision Date: 22.02.2016 Print date:: 22.02.2016

SDS GB - EN - 000000000600663414



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil, low viscous LD 50 (Rat): > 5.000 mg/kg

Phenolic antioxidant No data available.

agent

Alkylen amine LD 50 (Rat): 1.689 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil, low viscous LD 50 (Rabbit): > 5.000 mg/kg

Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Base oil, low viscous
Phenolic antioxidant
No data available.
No data available.

agent

Alkylen amine No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Issue Date: 24.04.2015 Revision Date: 22.02.2016 Print date: 22.02.2016

Print date:: 22.02.2016 SDS GB - EN - 00000000600663414



Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

In vivo

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available.
Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Reproductive toxicity

Product: No data available.

Issue Date: 24.04.2015 Revision Date: 22.02.2016 Print date:: 22.02.2016

SDS GB - EN - 000000000600663414



Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Base oil, low viscous LC 50 (Fish, 96 h): > 101 mg/l

Phenolic antioxidant No data available.

agent

Alkylen amine LC 50 (Fish, 96 h): > 0,11 - 1 mg/l

Aquatic Invertebrates

Product: No data available.

Issue Date: 24.04.2015 Revision Date: 22.02.2016

Print date:: 22.02.2016 SDS GB - EN - 00000000600663414

8/12



Specified substance(s)

Base oil, low viscous EC 50 (Water Flea, 48 h): > 10.000 mg/l

Phenolic antioxidant No data available.

agent

Alkylen amine EC 50 (Water Flea, 48 h): > 0,11 - 1 mg/l

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Base oil, low viscous EC 50 (Alga, 72 h): > 101 mg/l

Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Base oil, low viscous No data available. Phenolic antioxidant No data available.

agent

Alkylen amine No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Issue Date: 24.04.2015 Revision Date: 22.02.2016 Print date:: 22.02.2016

Print date:: 22.02.2016 SDS GB - EN - 00000000600663414

9/12



No data available. Base oil, low viscous Phenolic antioxidant

agent

No data available.

Alkylen amine No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Base oil. low viscous No data available. Phenolic antioxidant agent No data available. Alkylen amine No data available.

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other Adverse Effects: Experimental data has shown that the concentration of the potentially

aquatic toxic components present in this product is not harmful to aquatic

organisms.

Water Hazard Class

(WGK):

WGK 1: slightly water-endangering.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Do not empty into drains; dispose of this material and its container in a safe **Disposal methods:**

way. When storing used products, ensure that the waste categories and

mixing instructions are observed.

European Waste Codes

13 01 10*: mineral based non-chlorinated hydraulic oils

SECTION 14: Transport information

ADR/RID

14.1 UN Number: 14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): Hazard No. (ADR): Tunnel restriction code: 14.4 Packing Group:

14.5 Environmental hazards: 14.6 Special precautions for user:

Issue Date: 24.04.2015 Revision Date: 22.02.2016 Print date:: 22.02.2016

SDS GB - EN - 000000000600663414

10/12



14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Non-dangerous goods Class:

Label(s):

14.3 Packing Group:

14.5 Environmental hazards: 14.6 Special precautions for user:

IMDG

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Non-dangerous goods Class:

Label(s): EmS No.:

14.3 Packing Group:

14.5 Environmental hazards: 14.6 Special precautions for user:

IATA

14.1 UN Number:

14.2 Proper Shipping Name:

14.3 Transport Hazard Class(es):

Class: Non-dangerous goods

Label(s):

14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user:

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety

assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Issue Date: 24.04.2015 Revision Date: 22.02.2016

SDS GB - EN - 000000000600663414

Version: 1.1 Print date:: 22.02.2016



Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. Causes skin irritation. H315 H318 Causes serious eye damage. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated

exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Training information: Follow training instructions when handling this material.

Other information: The classification is in line with current EC lists. It is expanded, however, by

information from technical literature and by information furnished by supplier

companies. The classification results from the Conventional Method

mentioned in regulation EU 1272/2008 (CLP).

Revision Date: 22.02.2016

Disclaimer: The data contained in this safety data sheet are based on our current

> knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date

safety data sheets. This document was issued electronically and has no

signature.

Issue Date: 24.04.2015 Revision Date: 22.02.2016 Print date:: 22.02.2016

SDS GB - EN - 000000000600663414

Version: 1.1