

## SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

#### PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: RENOLIN FF 68 SPINDELÖL

Other means of identification: For further information, please refer to section 9 of the SDS.

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

Identified uses: Hydraulic fluid

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

**US** Distributor Manufacturer / Supplier FUCHS LUBRICANTS GERMANY GmbH

> Friesenheimer Str. 19 68169 Mannheim

+49 621 3701-0 (ZENTRALE)

Telephone: Fax:

+49 621 3701-570 (708) 333-8900 (800) 255-3924 24 hrs

**Emergency** 

Fuchs Lubricants Co.

Harvey, IL 60426

17050 Lathrop Avenue

Contact for request of safety data sheets

E-mail: Automotive lubricants CS.Services-FLG@fuchs.com

Industrial lubricants

+49 621 3701-0 (ZENTRALE) Telephone:

Informing department for safety data sheets

E-mail: produktsicherheit-FLG@fuchs.com

1.4 US contact telephone: 708-333-8900 **Emergency telephone:** 800-255-3924

#### 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous and does not need to be labelled according to the legislation in force.

**Hazard summary** 

**Physical Hazards:** No data available.

2.2 Label Elements Not applicable

Issue Date: 30.10.2013 Revision Date: 18.12.2023 Version: 1.3

Print date: 24.01.2024 SDS\_US - CP1006181



Product name: RENOLIN FF 68 SPINDELÖL

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.

Due to information available product does not contain any ingredients of Unknown toxicity:

unknown toxicity.

## **COMPOSITION / INFORMATION ON INGREDIENTS**

#### 3.2 Mixtures

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

Chemical name	Identifier	Concentration *	Notes
Base oil, low viscous	64742-55-8	1.00 - <10.00%	

<sup>\*</sup> 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	64742-55-8	Asp. Tox. 1;H304

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Nota L/ Nota N of Annex VI of Regulation EC 1272/2008.'

#### 4 **FIRST AID MEASURES**

General: Instantly remove any clothing soiled by the product.

### 4.1 Description of first aid measures

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

Eve 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**

Issue Date: 30.10.2013 Revision Date: 18.12.2023 Print date: 24.01.2024

SDS\_US - CP1006181

Version: 1.3

2/11

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



Product name: RENOLIN FF 68 SPINDELÖL

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:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not

enter drains.

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). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow

to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning

up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to

regulations. Stop the flow of material, if this is without risk.

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:

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

7.2 Conditions for safe storage,

including any incompatibilities:

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

flash point.

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

Issue Date: 30.10.2013 Revision Date: 18.12.2023 Print date: 24.01.2024 SDS\_US - CP1006181

Version: 1.3



Product name: RENOLIN FF 68 SPINDELÖL

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Issue Date: 30.10.2013 Revision Date: 18.12.2023 Print date: 24.01.2024 SDS\_US - CP1006181



Product name: RENOLIN FF 68 SPINDELÖL

## **8.1.Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
Unalloyed mineral oil - Inhalable fraction.	TWA	5 mg/r	m3 US. ACGIH Threshold Limit Values, as amended (03 2014)
Unalloyed mineral oil	PEL	500 ppm 2,000 mg/r	us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Unalloyed mineral oil - Mist.	PEL	5 mg/r	us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Unalloyed mineral oil	TWA	400 ppm 1,600 mg/r	n3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Unalloyed mineral oil - Mist.	TWA	5 mg/r	m3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, paraffinic	PEL	500 ppm 2,000 mg/r	us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil, paraffinic - Mist.	PEL	5 mg/r	us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil, paraffinic	TWA	400 ppm 1,600 mg/r	n3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, paraffinic - Mist.	TWA	5 mg/r	n3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, paraffinic - Mist.	PEL	5 mg/r	n3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (01 2017)
Base oil, paraffinic - Mist.	TWA	5 mg/r	n3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil, low viscous - Inhalable fraction.	TWA	5 mg/r	n3 US. ACGIH Threshold Limit Values, as amended (03 2014)
Base oil, low viscous - Mist.	PEL	5 mg/r	n3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil, low viscous - Mist.	TWA	5 mg/r	n3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
base oil - Inhalable fraction.	TWA	5 mg/r	m3 US. ACGIH Threshold Limit Values, as amended (03 2014)
base oil	PEL		us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
base oil - Mist.	PEL	5 mg/r	n3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
base oil	TWA	400 ppm 1,600 mg/r	n3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
base oil - Mist.	TWA	5 mg/r	n3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil - Mist.	PEL	5 mg/r	n3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil - Mist.	TWA	5 mg/r	n3 US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil - Inhalable fraction.	TWA	5 mg/r	n3 US. ACGIH Threshold Limit Values, as amended (03 2014)

Issue Date: 30.10.2013 Revision Date: 18.12.2023 Print date: 24.01.2024 SDS\_US - CP1006181



Product name: RENOLIN FF 68 SPINDELÖL

8.2. Exposure controls

Appropriate engineering

controls:

Provide adequate ventilation. 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.

**Eye/face protection:** Avoid contact with skin and eyes. Goggles/face shield are recommended. If

risk of splashing, wear safety goggles or face shield.

Skin protection

Hand Protection: Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0.38 mm

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:** Ensure good ventilation/exhaustion at the workplace. Avoid breathing

vapour/ aerosol.

Thermal hazards: No data available.

**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.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance

Physical state: liquid
Form: liquid
Color: Pale yellow
Odor: Characteristic

Odor Threshold: Not applicable for mixtures

Issue Date: 30.10.2013
Revision Date: 18.12.2023

Version: 1.3

Print date: 24.01.2024 SDS\_US - CP1006181



Product name: RENOLIN FF 68 SPINDELÖL

**pH:** substance/mixture is non-soluble (in water)

Freezing point: Not applicable for mixtures

Boiling Point: Value not relevant for classification

Flash Point: 253 °C

**Evaporation Rate:** Not applicable for mixtures

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

Explosion Limit - Upper (%):

Not applicable for mixtures

**Density:** 0.85 g/ml (15.00 °C)

Solubility(ies)

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

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

Auto-ignition temperature: Value not relevant for classification

Decomposition Temperature: Value not relevant for classification

Kinematic viscosity: 68.8 mm2/s (40 °C)

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

**9.2 Other information** No data available.

**SECTION 10: Stability and reactivity** 

**10.1 Reactivity:** Stable under normal use conditions.

**10.2 Chemical Stability:** Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

**10.4 Conditions to avoid:** Stable under normal use conditions.

**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.

11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

Issue Date: 30.10.2013 Revision Date: 18.12.2023 Print date: 24.01.2024

SDS\_US - CP1006181

evision Date: 18.12.2023 Version: 1.3

7/11



Product name: RENOLIN FF 68 SPINDELÖL

**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

**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 (OECD 402)

Inhalation

**Product:** 

Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil, low viscous LC 50 (Rat, 4 h): > 5.1 mg/l

Skin Corrosion/Irritation:

Based on available data, the classification criteria are not met. Product:

Specified substance(s)

Base oil, low viscous (Rabbit): Not irritant.

Serious Eye Damage/Eye Irritation:

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

Base oil, low viscous OECD 405 (Rabbit): Not irritant.

Respiratory or Skin Sensitization:

**Product:** Skin sensitizer: Based on available data, the classification criteria are not

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Base oil. low viscous No sensitizing effect (guinea pig); OECD 406

**Germ Cell Mutagenicity** 

**Product:** Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

NTP: US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

Issue Date: 30.10.2013 Revision Date: 18.12.2023

SDS\_US - CP1006181

Version: 1.3 Print date: 24.01.2024

8/11



Product name: RENOLIN FF 68 SPINDELÖL

OSHASP: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Reproductive toxicity

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** Based on available data, the classification criteria are not met.

**Aspiration Hazard** 

**Product:** Based on available data, the classification criteria are not met.

#### 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

**Acute toxicity** 

**Product:** Based on available data, the classification criteria are not met.

**Fish** 

Specified substance(s)

Base oil, low viscous LL 50 (Fish, 96 h): > 100 mg/l

Aquatic Invertebrates Specified substance(s)

Base oil, low viscous EC 50 (Water Flea, 48 h): > 1,000 mg/l

**Chronic ToxicityProduct:** Based on available data, the classification criteria are not met.

Aquatic Invertebrates Specified substance(s)

Base oil, low viscous NOEC (Water Flea, 21 d): 10 mg/l

Toxicity to Aquatic Plants Specified substance(s)

Base oil, low viscous NOEC (Alga, 72 h): > 100 mg/l

## 12.2 Persistence and Degradability

Biodegradation

**Product:** Not applicable for mixtures

Specified substance(s)

Base oil, low viscous 31 % (28 d, OECD 301F)

12.3 Bioaccumulative potential

**Product:** Not applicable for mixtures

12.4 Mobility in soil:

**Product:** Not applicable for mixtures

Issue Date: 30.10.2013
Revision Date: 18.12.2023
Version: 1.3

Print date: 24.01.2024 SDS\_US - CP1006181



Product name: RENOLIN FF 68 SPINDELÖL

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:** No data available.

13 Disposal considerations

13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

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

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

mixing instructions are observed.

#### 14 TRANSPORT INFORMATION

DOT

Not Regulated.

**TDG** 

Not Regulated.

**IMDG - International Maritime Dangerous Goods Code** 

Not Regulated.

IATA

Not Regulated.

#### 15 REGULATORY INFORMATION

### **US Federal Regulations**

### **US State Regulations**

**Inventory Status** 

involutory otatuo				
	TSCA	On or in compliance with the inventory		
	DSL	Q (quantity restricted)		

#### 16 OTHER INFORMATION

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

Wording of the H-statements in section 2 and 3

H304 May be fatal if swallowed and enters airways.

Revision Date: 18.12.2023

Issue Date: 30.10.2013 Revision Date: 18.12.2023 Print date: 24.01.2024 SDS\_US - CP1006181

Version: 1.3



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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: 30.10.2013
Revision Date: 18.12.2023
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SDS\_US - CP1006181

Version: 1.3