

#### **1.** Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifier**

Product name:	SACHS Hochleistungsfett SACHS High Performance Grease Tribol GR 400-3 PD
Product code:	0671.190.050 0671.190.165 4200 080 050 4200 080 060

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

Use of the substance/mixture:

Grease for industrial applications.

#### **1.3** Details of the supplier of the safety data sheet

ZF Friedrichshafen AG ZF Aftermarket Obere Weiden 12 97424 Schweinfurt Germany +49 9721 475 60 www.zf.com /contact

#### **1.4** Details of Australian Importer/Supplier

ZF Services Pty Limited Unit 1, 13 Bessemer Street Blacktown, NSW 2148 +61 2 9679 5555

#### 1.5 Emergency telephone number 24/7h Emergency telephone number:

Australia ZF 24/7: Tel (+1) 300 938 324 (in English)

International GBK-EMETEL: Tel (+1) 352 323 3500 (in English)

(+49) 89 19 240 (Emergency Call - Information in German and in English)

#### 2. Hazards identification



#### 2.1 Classification of the substance or mixture

Product definition Mixture

The product is not classified, according to the Globally Harmonised System (GHS).

#### 2.2 Label elements

GHS label elements	Void
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void

Other hazards

#### **Results of PBT and vPvB assessment:**

PBT:	Not applicable.
vPvB:	Not applicable.

#### 3. Substance/mixture

Chemical characterisation	Mixtures
Description	Mixture of mineroil oil raffinates and additives.
Dangerous components	Void
Additional information	For the wording of the listed hazard phrases refer to section 16.

#### 4. First aid measures

#### 4.1 Description of first aid measures

General information

It may be dangerous to the person

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	providing aid to give mouth-to-mouth resuscitation. If victim is unconscious: Victim to lie down and be transported in the recovery position. If required, provide artificial respiration.
After inhalation	Supply fresh air; consult doctor in case of symptoms
After skin contact	The product is not skin irritating.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
After swallowing	Do not induce vomitting. In case of persistent symptoms consult doctor.

#### 4.2 Information for doctor

Most important symptoms and effects, Dermatitis both acute and delayed

After skin contact	Has a degreasing effect on the skin.
Indication of any immediate medical attention and special treatment needed	A symptomatic therapy is to be induced.

#### 5. **Firefighting measures**

#### 5.1 **Extinguishing media**

For safety reasons unsuitableThe use of a water jet may cause the fire to spread by splashing the burning product.	
Special hazards arising from the In a fire or if heated, a pressure increase will occur and the container may burst.	
Hazardous combustion products: Pressure build-up and risk of bursting	

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when heated.

Can be released in case of fire	Carbon monoxide and carbon dioxide Metal oxides

### 5.3 Advice for firefighters

Protective equipment	In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.
Additional information	Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away. Particular danger of slipping on leaked/spilled product.
Environmental precautions:	Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water or sewage system.
Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Dispose of the material collected according to regulations. Send for recovery or disposal in suitable containers.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.



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#### 7. Handling and storage

#### 7.1 Handling

7.2

Precautions for safe handling	Wear suitable protection equipment. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols
Information about protection against explosions and fires	No special measures required.
Conditions for safe storage, including	g any incompatibilities
Requirements to be met by storerooms and containers	Store only in the original container
Information about storage in one common storage facility	Not required
Further information about storage conditions	Keep container tightly closed and store in a dry, cool and well ventilated place. Protect from heat and direct sunlight.

#### 7.3 Specific end use(s)

No further relevant information available.

#### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Components with limit values that require monitoring at the workplace	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information	The lists that were valid during the compilation were used as basis.

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#### 8.2 Exposure controls

#### Personal protective equipment

Do not eat, drink or smoke while

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measures

working. Wash hands during breaks and at the end of the work. Do not wear contamineted clothings outside the workplace. Ensure that washing facilities are available in the work place.

#### **Breathing equipment**

Not required when used as intended. Use breathing protection in case of insufficient ventilation.

Protection of hands	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	Nitrile rubber, NBR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material	In case of a layer thickness of 0.35 mm the penetration time is longer than 480 minutes. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	Tightly sealed safety glasses.
Body protection	Wear antistatic and flame resistant clothing.



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#### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

#### **General Information**

Form:	Pasty
Colour:	Dark Brown
Odour:	Characteristic
Odour threshold:	Not determined
pH:	Not determined

Melting point/freezing point	Not determined	
Initial boiling point and boiling range	Not determined	
Flash point	268°C (514.4°F)	Open cup [Estimated. Based on Lubricants - Base Oils]
Inflammability (solid, gaseous)	Not applicable	
Decomposition temperature	Not determined	
Self-inflammability	Product is not selfigniting	
Explosive properties	Product is not explosive	
Critical values for explosion Lower Upper	Not determined Not determined	
Vapour pressure	Not determined	
Density Relative density Vapour density Evaporation rate	<1000 kg/m³ (<1 g/cm³) at 20°C Not determined Not determined Not determined	

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Solubility in / Miscibility with Water	Not miscible or difficult to mix	
Viscosity: dynamic: kinematic:	Not determined Not determined	
Other information	No further relevant information available	

#### 10. Stability and reactivity

10.4

10.5

10.1	Reactivity	No further relevant information available
10.2	Chemical stability	
	Thermal decomposition / conditions to be avoided	No decomposition if used according to specifications.
10.3	Possibility of hazardous reactions	No dangerous reactions known

- Conditions to avoidNo further relevant information<br/>available.
- Incompatible materials No further relevant information available.
- **10.6 Hazardous decomposition products** None in case of intended use and storage in compliance with instructions.

#### **11.** Toxicological information

### 11.1 Information on toxicological effects

Information on toxicological effects Acute toxicity

	,	
LD/LC50 values that are relevant for classification		
8042-47-5	White n	nineral oil (petroleum)
Oral	LD50	> 5,000 mg/kg (rat) (OECD 401)

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Dermal	LD50	> 2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	> 5 mg/l/4h (rat) (OECD 403)
7446-19-7	zinc sulp	phate (hydrous) (mono-, hexa-and hepta hydrate)
Oral	LD50	2,280 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit) (OECD 402)

Additional toxicological information

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Repeated c	lose toxicity	
8042-47-5	White mineral of	il (petroleum)
Oral	NOAEL (90d)	> 1,900 mg/kg bw/day (rat) (OECD 408)

### **12.** Ecological information

#### 12.1 Toxicity

Aquatic toxicity		
8042-47-5 Whi	te mineral oil (petroleum)	
EC50 (static)	> 100 mg/l/48h (Daphnia magna) (OECD 202)	
LC50 (static)	> 1,000 mg/l/96h (Oncorhynchus mykiss) (OECD 203)	
NOEL (static) > 100 mg/I/72h (Pseudokirchneriella subcapitata)		
7446-19-7 zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)		
EC50	0.259 mg/l/48h (Daphnia magna)	
LC50 (static)	0.78 mg/l/96h (Pimephales promelas)	

#### 12.2 Persistence and degradability

No further relevant information available.

#### **Other information**

There are no data available about the preparation.

#### 12.3 Bioaccumulative potential

No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

#### **12.5 Ecotoxical effects:**

Remark

Harmful to fish

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Additional ecological information

General notes

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil. Harmful to aquatic organisms

#### 12.6 Results of PBT and vPvB assessment

PBT	Not applicable
vPvB	Not applicable
Other adverse effects	No further relevant information available

#### 13. Disposal considerations

#### 13.1 Waste treatment methods

Recommendation	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Uncleaned packagings	
Recommendation	Dispose of packaging according to regulations on the disposal of packagings. Non contaminated packagings can be used for recycling. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

### 14 Transport information UN-Number

ADG, IMDG, IATA

Void

### UN proper shipping name

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ADG, IMDG, IATA

Void

#### Transport hazard class(es)

ADG, ADN, IMDG Class

Void

IATA Class

Void Not Restricted

#### **Packing group**

ADG, IMDG, IATA

Void

#### Environmental hazards Not applicable

**Special precautions for user** Not applicable

**Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable

#### Transport/Additional information

Not dangerous according to the above specifications

#### **UN "Model Regulation"** Void

### 15. Regulatory information

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

#### Australian Inventory of Industrial Chemicals

8042-47-5	White mineral oil (petroleum)
7446-19-7	zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)
26544-23-0	lsodecyl diphenyl phosphite
4306-88-1	2,6-di-tert-butyl-4-nonylphenol

### Standard for the Uniform Scheduling of Medicines and Poisons



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7446-19-7

zinc sulphate (hydrous) (mono-, hexaand hepta hydrate)

#### Australia: Priority Existing Chemicals

None of the ingredients is listed.

#### National regulations

Water hazard class

Water hazard class 2 (Selfassessment): hazardous for water.

Substances of very high concern (SVHC) according to REACH, Article 57 None of the ingredients is contained.

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

#### **16.** Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet: This Safety Data Sheet has been drawn up in cooperation with: DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany, phone: (+49) 511 42079 - 0, reach@dekra.com.

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· Contact:

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic



SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative