SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

SACHS Hochleistungsfett Tribol GR 400-3 PD

Version number: 1

Issued: 2025-02-12

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

1.1. Product identifier

Trade name

SACHS Hochleistungsfett Tribol GR 400-3 PD

Article No.

0671.190.050; 0671.090.502; 4200.080.050; 420.0080.060

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

Product type

Mixture.

Relevant identified uses

Lubricant.
Grease.
For use in industrial installations or professional treatment only.

Not suitable for use in

This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

1.3. Details of the supplier of the safety data sheet

SDS created by

Sunil

SACHS Hochleistungsfett Tribol GR 400-3 PD

Supplier
ZF Aftermarket

Address
ZF Friedrichshafen AG
Obere Weiden 12

97424 Schweinfurt
Germany

Telephone
+49 9721 475 60

Email
msds.zf-aftermarket@zf.com

Web site
www.zf.com/contact

Contact person
Marcin Nadany / Sunil

Email
msds.zf-aftermarket@zf.com

1.4. Emergency telephone number

+49 (0)89 19240 Information in German and English

Available outside office hours
Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification
Hazardous to the aquatic environment — Chronic hazard category 3

Hazard statements
H412

2.2. Label elements

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P501 Dispose of contents/container to be accordance with all local, regional, national and international regulations..

More information

Signal word : No signal word.
Response: Not applicable.
Storage: Not applicable.
Hazardous ingredients: Not applicable.

Supplemental label information: Contains Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3) , Reaction products of triphenyl phosphite and isodecanol (1:1) , 2,6-di-tert-butyl-4-nonylphenol May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.
Containers to be fitted with child-resistant fastenings: Not applicable.
Tactile warning of danger: Not applicable.

2.3. Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

Other hazards which do not result in classification: Product has a defatting effect on skin.
Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	1380226-46-9 412-780-3 01-0000016000-92 042-004-00-5	>0 - <1%	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2, Eye Irrit. 2	- - -	-
Reaction products of triphenyl phosphite and isodecanol (1:1)	- 701-341-4 01-2119968254-31 -	>0 - <1%	Skin Sens. 1, STOT RE 2, Aquatic Chronic 2	- - -	-
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	7446-19-7 231-793-3 01-2119474684-27 030-006-00-9	>0 - <1%	Acute Tox. 4 - oral, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1	H302, H318, H400, H410 - -	-
2,6-di-tert-butyl-4-nonyl-phenol	4306-88-1 224-320-7 01-2120759723-46 -	>0 - ≤0.3%	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1	- - -	-

Substance additional information
DMSO < 3% (IP 346)
Proprietary performance additives.
Thickening agent.

Occupational exposure limits, if available, are listed in Section 8.

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.

Skin contact
Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact
Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion
Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. Place unconscious person on the side in the recovery position and ensure breathing.

4.2. Most important symptoms and effects, both acute and delayed
See section 11 for more detailed information on health effects and symptoms.

Inhalation
Potential delayed effects: Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.

Eye contact
Potential delayed effects: Potential risk of transient stinging or redness if accidental eye contact occurs.

Ingestion
Potential delayed effects: Ingestion of large quantities may cause nausea and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed
Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.

Notes to physician: Treatment should in general be symptomatic and directed to relieving any effects.
Note: High Pressure Applications.
Injuries may not appear serious at first but within a few hours tissue becomes swollen, discolored and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimize tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Dry chemicals.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

No specific symptoms noted.

Hazardous combustion products: Carbon monoxide (CO). Carbon dioxide (CO2). Metal oxides.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Special precautions: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3. Methods and material for containment and cleaning up

Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. If emergency personnel are unavailable, contain spilt material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

protective measures: Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid contact of spilt material and runoff with soil and surface waterways. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous.

General hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Avoid exposure to high temperatures or direct sunlight.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

No exposure limit value known. Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Recommended monitoring procedures: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance
documents for methods for the determination of hazardous substances will also be required.

No DNELs/DMELs available. No PNECs available.

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8.2. Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated.
Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye / face protection

Safety glasses.

Hand protection

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures). Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommendations: Nitrile gloves are recommended.
Breakthrough time: Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:
Continuous contact:
Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained. If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.Short-term / splash protection:Recommended breakthrough times as above. It is recognized that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.Glove Thickness:
For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.
Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:
• Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
• Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

Other skin protection

Use of protective clothing is good industrial practice.
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment
of the working conditions.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Other

Refer to standards:
Respiratory protection: EN 529.
Gloves: EN 420, EN 374.
Eye protection: EN 166.
Filtering half-mask: EN 149.
Filtering half-mask with valve: EN 405.
Half-mask: EN 140 plus filter.
Full-face mask: EN 136 plus filter.
Particulate filters: EN 143.
Gas/combined filters: EN 14387.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Grease.

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Colour
Dark brown.

Odour
Not available.

Odour threshold
Not available.

Melting point / freezing point
Not available.

Boiling point or initial boiling point and boiling range
Not available.

Flammability
Not available.

Lower and upper explosion limit
Not applicable.

Flash point
268 °C
Method
Open cup [Estimated. Based on Lubricants - Base Oils]

Auto-ignition temperature
No data available

Decomposition temperature
Not available.

pH
Not applicable.

Kinematic viscosity
Not available.

Solubility
Not soluble in water.

Partition coefficient n-octanol/water
Not applicable.

Vapour pressure
0.011 kPa
Method
[0.086257 mm Hg]

Density and/or relative density
< 1000 kg/m³
Method
(<1 g/cm³) at 20°C

Relative vapour density
Not applicable.

Evaporation Rate
Not available.

Explosive properties
Not available.

Oxidising properties
Not available.

Particle characteristics
Median particle size: Not available.

9.2. Other information
No data available

Other
Drop Point: >190 °C
Penetration Number (0.1 mm): 220 to 250 at 25°C

SECTION 10: Stability and reactivity

10.1. Reactivity
No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

10.2. Chemical stability
Stable under normal use conditions.

10.3. Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials
Oxidising materials.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity
ATE (Oral) - isodecyl diphenyl phosphite : 2500 mg/kg
ATE (Oral) - zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) : 500 mg/kg

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
isodecyl diphenyl phosphite -	LC50	>8.4 mg/l	Inhalation. [Vapour]	Rat.	OECD 403
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) -	LD50	>2000 mg/kg	Dermal	Rat.	OECD 402
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) -	LD50	>1710 mg/kg	Oral.	Rat.	OECD 401
2,6-di-tert-butyl-4-nonylphenol -	LD50	>2000 mg/kg	Dermal	Rat.	OECD 402

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
2,6-di-tert-butyl-4-nonylphenol -	LD50	>2000 mg/kg	Oral.	Rat.	OECD 401
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3) -	LD50	> 2000 mg/kg	Dermal	Rat.	OECD 402
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3) -	LD50	>2000 mg/kg	Oral.	Rat.	OECD 401
isodecyl diphenyl phosphite -	LD50	>5000 mg/kg	Dermal	Rabbit	OECD 402
isodecyl diphenyl phosphite -	LD50	3840 mg/kg	Oral.	Rat.	OECD 401

Skin corrosion/irritation

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

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) -	Skin. - Not irritating.	Rabbit	OECD 404
2,6-di-tert-butyl-4-nonylphenol -	Skin. - Mild. Irritating.	Rabbit	OECD 404
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3) -	Skin. - Moderately Irritating.	Rabbit	OECD 404
isodecyl diphenyl phosphite	Skin. - Slightly Irritating.	Rabbit	OECD 404

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
-			

Serious eye damage/irritation

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

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3) -	Eyes - Redness of the conjunctivae	Rabbit	OECD 405
isodecyl diphenyl phosphite -	Slightly irritating to the eye.	Rabbit	ASTM
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) -	Eyes. - Severe irritation.	Rabbit	OECD 405
2,6-di-tert-butyl-4-nonylphenol -	Slightly irritating to the eye.	Rabbit	OECD 405

Respiratory or skin sensitisation

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

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3) -	Skin. - Sensitising.	Guinea Pig	OECD 406
isodecyl diphenyl phosphite -	Skin. - Sensitising.	Guinea Pig	OECD 406
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) -	Not sensitising.	Mouse	OECD 429
2,6-di-tert-butyl-4-nonylphenol -	Sensitising.	Mouse	OECD 429

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Product / Substance name CAS / EC no.	Result	Exposure route	Species	Method / Guideline
2,6-di-tert-butyl-4-nonyl-phenol -	Positive. [Maternal toxicity:]	Oral.	Rat.	OECD 422

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

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics
Inhalation: No specific data.
Ingestion: No specific data.
Skin contact: Adverse symptoms may include the following:
irritation ; dryness ; cracking
Eye contact: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
No known significant effects or critical hazards.

11.2. Information on other hazards

Endocrine disrupting properties
Not available.

Other
Information on likely routes of exposure: Routes of entry anticipated - Dermal ; Inhalation. ; Eyes.

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SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
isodecyl diphenyl phosphite -	LC50	>16 mg/	96 hr.	Fish.	OECD 203
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) -	LC50	0.112 mg/l	96 hr.	Fish.	-
2,6-di-tert-butyl-4-nonylphenol -	LC50	>10 mg/l	96 hr.	Fish.	OECD 202

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3) -	EC50	1.6 mg/l	72 hr	Algae.	OECD 201
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) -	EC50	0.308 - 0.41 mg/l	72 hr	Algae.	-
2,6-di-tert-butyl-4-nonylphenol -	ErC50	>100 mg/l	72 hr	Algae.	OECD 201
2,6-di-tert-butyl-4-	EC10	100 mg/	72 hr	Algae.	OECD 201

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
nonylphenol -					

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3) -	EC50	1 - 5 mg/l	48 hr.	Daphnia magna	OECD 202
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) -	EC50	0.095 mg/l	48 hr.	Daphnia magna	-
2,6-di-tert-butyl-4-nonylphenol -	EC50	0.124 mg/l	48 hr.	Daphnia magna	OECD 202

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
isodecyl diphenyl phosphite -	EC50	>100 mg/l	3 hours	Acute Toxicity - Microorganisms:	OECD 209
2,6-di-tert-butyl-4-nonylphenol -	EC50	>1000 mg/l	3 hours	Acute Toxicity - Microorganisms:	OECD209

12.2. Persistence and degradability

Persistence and degradability

Product / Substance name CAS / EC no.	Duration	Result	Degradation	Method / Guideline
isodecyl diphenyl phosphite -	28 days	Not readily biodegradable.	17%	-
2,6-di-tert-butyl-4-nonylphenol -	28 days	-	31 %	OECD 302C

12.3. Bioaccumulative potential

Bioaccumulative potential

Not available.

12.4. Mobility in soil

Mobility

Product / Substance name CAS / EC no.	KOC	Mobility
SACHS Hochleistungsfett Tribol GR 400-3 PD -	Not available.	Grease. - Insoluble in water.

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

12.6. Endocrine disrupting properties

Not available.

12.7. Other adverse effects

Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Where possible, arrange for product to be recycled. Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.
Hazardous waste: Yes.

Packaging

Where possible, arrange for product to be recycled. Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Waste code	Waste description
12 01 12*	spent waxes and fats
15 01 10*	packaging containing residues of or contaminated by hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

Other

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

References: Commission 2014/955/EU ; Directive 2008/98/EC

SECTION 14: Transport information

14.1. UN number

Not regulated.

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

Not regulated.

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14.3. Transport hazard class(es)

Label

Not regulated.

ADR / RID Class

Not regulated.

ADR / RID Classification code

Not regulated.

ADR / RID hazard identification number

Not regulated.

IMDG Class

Not regulated.

IATA Class

Not regulated.

ADN Class

Not regulated.

14.4. Packing group

Not regulated.

14.5. Environmental hazards

Not regulated.

IMDG Marine Pollutant

Not regulated.

14.6. Special precautions for user

Not available.

14.7. Maritime transport in bulk according to IMO instruments

Not available.

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SECTION 15: Regulatory information

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

EU regulations

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorization: None of the components are listed.
Substances of very high concern (SVHC): None of the components are listed.
EU Regulation (EC) No. 1907/2006 (REACH)
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

Ozone depleting substances (1005/2009/EU): Not listed.
Prior Informed Consent (PIC) (649/2012/EU): Not listed.
Persistent Organic Pollutants: Not listed.
EU - Water framework directive - Priority substances: None of the components are listed.
Seveso Directive: This product is not controlled under the Seveso Directive.

National regulations

No data available

Other regulations, limitations and legal regulations

Inventory list:
Europe inventory (EC): The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.
United States inventory (TSCA 8b): All components are active or exempted.
Australia inventory (AIIC): All components are listed or exempted.
Canada inventory (DSL/NDSL): At least one component is not listed in DSL but all such components are listed in NDSL.
China inventory (IECSC): All components are listed or exempted.
Japan inventory (CSCL): Not determined. At least one component is not listed.
Korea inventory (KECI): At least one component is not listed.
Philippines inventory (PICCS): At least one component is not listed.
Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

SACHS Hochleistungsfett Tribol GR 400-3 PD

SECTION 16: Other information

Phrase meaning

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3
Skin Irrit. 2 - Skin irritation, hazard category 2
Skin Sens. 1 - Skin sensitisation, hazard category 1
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
Eye Irrit. 2 - Eye irritation, hazard category 2
STOT RE 2 - Specific Target Organ Toxicity — Repeated exposure, hazard category 2
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Eye Dam. 1 - Serious eye damage, hazard category 1
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1
Skin Sens. 1B - Skin sensitisation, hazard category 1, sub-category 1B
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Other

Additional information

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.