Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET



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

1.1 Product identifier	
Product name	Tribol GR 100-0 PD
UFI:	VQK2-X0K6-6009-M7SW
Product code	468681-DE03
SDS #	468681
Product type	Grease

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

	Identified uses
	nd greases in vehicles or machinery-Industrial nd greases in vehicles or machinery-Professional
Use of the substance/ mixture	Grease for industrial applications. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
1.3 Details of the supplier o	of the safety data sheet
Supplier	Castrol Holdings Europe B.V., d'Arcyweg 76, 3198NA Europoort Rotterdam
	Castrol Germany GmbH, Überseeallee 1, 20457 Hamburg
	+49 (0) 800 863 73 70
E-mail address	MSDSadvice@bp.com
1.4 Emergency telephone n	umber
EMERGENCY TELEPHONE NUMBER	Carechem: +44 (0) 1235 239 670 (24/7)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Skin Sens. 1, H317

Aquatic Chronic 3, H412

See Section 16 for the full text of the H statements declared above.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

2.2 Label elements UFI: Hazard pictograms

VQK2-X0K6-6009-M7SW



Signal word Hazard statements Warning H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

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SECTION 2: Hazards identification

SECTION 2. Hazarus I			
Prevention	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing dust.		
Response	P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical attention.		
Storage	Not applicable.		
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Hazardous ingredients	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		
Supplemental label	Not applicable.		
elements			
EU Regulation (EC) No. 1907/			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.		
Special packaging requirements			
Containers to be fitted with child-resistant fastenings	Not applicable.		
Tactile warning of danger	Not applicable.		
2.3 Other hazards			
Results of PBT and vPvB assessment	Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		
Other hazards which do not result in classification	Defatting to the skin. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet. Experimental data on one or more of the components has been used to determine all or part of the hazard classification of this product. None known. Experimental data on one or more of the components has been used to determine all or part of		
	the hazard classification of this product.		

SECTION 3: Composition/information on ingredients

22 February 2023.

3.2 Mixtures

Date of previous issue

Product definition Mixture

Highly refined mineral oil and additives. Thickening agent.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	REACH #: 01-0000016000-92 EC: 412-780-3 Index: 042-004-00-5	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
Reaction products of triphenyl phosphite and isodecanol (1:1)	REACH #: 01-2119968254-31 EC: 701-341-4 CAS: -	<1	Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 2, H411	-	[1]
2,6-di-tert-butyl-4-nonylphenol	REACH #: 01-2120759723-46 EC: 224-320-7 CAS: 4306-88-1	<1	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Product name Tribol GR 100-0	PD		Product code 4686	681-DE03 Page:	2/20
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SECTION 3: Composition/information on ingredients

See Section 16 for the full text of the H statements declared above.

Туре

[1] Substance classified with a health or environmental hazard

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

SECTION 4: First aid measures

4.1 Description of first aid mea	sures		
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.		
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. In the event of any complaints or symptoms, avoid further exposure. Get medical attention.		
Inhalation	If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.		
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if symptoms occur.		
Protection of first-aiders	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		
4.2 Most important symptoms	and effects, both acute and delayed		
See Section 11 for more detai	led information on health effects and symptoms.		
Potential acute health effects			
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.		
Ingestion	No known significant effects or critical hazards.		

Skin contact Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

Eye contact No known significant effects or critical hazards.

 Delayed and immediate effects as well as chronic effects from short and long-term exposure

 Inhalation
 Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

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

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	Use foam or all-purpose dry chemical to extinguish.
Unsuitable extinguishing media	Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

5.2 Special hazards arising from the substance or mixture

Hazards from the No specific fire or explosion hazard. substance or mixture

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SECTION 5: Firefighting measures

Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) metal oxide/oxides nitrogen oxides (NO, NO ₂ etc.) sulphur oxides (SO, SO ₂ , etc.)
5.3 Advice for firefighters	
Special precautions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. 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.
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.

SECTION 6: Accidental release measures

6.1 Personal precautions, prot	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 spilt material. Floors may be slippery; use care to avoid falling. Provide adequate ventilation. Put on appropriate personal protective equipment.				
For emergency responders	If specialised 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 o	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 5 for firefighting measures. See Section 8 for information on appropriate personal protective equipment. See Section 12 for environmental precautions. See Section 13 for additional waste treatment information.				

SECTION 7: Handling and storage

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).

7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. 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.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). 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. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Not suitable	Prolonged exposure to elevated temperature
Germany - Storage code	11

7.3 Specific end use(s)

Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable.

SECTION 8: Exposure controls/personal protection

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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).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

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.

Biological exposure indices

Product/ingredient name

Exposure indices

No exposure indices known.

Derived No Effect Level

No DNELs/DMELs available.

Predicted No Effect Concentration

No PNECs available

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8.2 Exposure controls				
Appropriate engineering controls	Provide exhaust ventilation or other concentrations below their respectiv All activities involving chemicals she exposures are adequately controller after other forms of control measure Personal protective equipment sho kept in good condition and properly Your supplier of personal protective appropriate standards. For further in The final choice of protective equipment ensure that all items of personal protective	ve occupational exposure ould be assessed for the d. Personal protective ec es (e.g. engineering cont uld conform to appropriat maintained. e equipment should be co information contact your ment will depend upon a	e limits. ir risks to health, to e quipment should only rols) have been suita te standards, be suita onsulted for advice or national organisation risk assessment. It is	nsure be considered bly evaluated. able for use, be n selection and for standards.
Individual protection measures	i i i i i i i i i i i i i i i i i i i			
Hygiene measures	Wash hands, forearms and face the smoking and using the lavatory and should be used to remove potential before reusing. Ensure that eyewas location.	at the end of the workin ly contaminated clothing.	g period. Appropriate . Wash contaminated	e techniques d clothing
Respiratory protection	In case of insufficient ventilation, we For protection against metal working to oil" (class R) or oil proof (class P) level of airborne contaminants, an a disposable (P- or R-series) (for oil n respirator equipped with hood or he Where organic vapours are a poten particulate and organic vapour filter The correct choice of respiratory pro conditions of work and use, and the	g fluids, respiratory prote) should be selected whe air-purifying, half-mask re nists less than 50mg/m3) Imet and HEPA filter (for tial hazard during metaly may be necessary. otection depends upon th	ection that is classified are appropriate. Depe espirator (with HEPA i), or any powered, air oil mists less than 12 working operations, a ne chemicals being ha	ending on the filter) including -purifying 25 mg/m3). combination andled, the
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SECTION 8: Expos	ure controls/personal protection
	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.
Eye/face protection	Safety glasses with side shields.
Skin protection Hand protection	General Information:
	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.
	Recommended: Nitrile gloves. 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 recognised 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.
Skin and body	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

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SECTION 8: Exposure controls/personal protection

	risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.
<u>Refer to standards:</u>	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
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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

or information on buolo physical	and ononnour proper							
<u>Appearance</u>								
Physical state	Grease							
Colour	Brown. [Light]							
Odour	Not available.							
Odour threshold	Not available.							
рН	Not applicable.							
Melting point/freezing point	Not available.							
Initial boiling point and boiling range	Not available.							
Drop Point	194 °C							
Flash point	Closed cup: 222°C	(431.6°F)	Estimate	ed. Based	on Lubr	icants - B	ase Oils]	
Evaporation rate	Not available.		-				-	
Flammability (solid, gas)	Not available.							
Lower and upper explosion	Not applicable.							
limit Vapour pressure	Not available.							
		Vapou	r Pressu	re at 20°C	Vai	oour pres	sure at 50)°C
	Ingredient name		1	Method	mm Hg	kPa	Metho	
Relative vapour density	Not applicable.							
Relative density	Not available.							
Density	<1000 kg/m³ (<1 g/	cm³) at 20)°C					
Solubility(ies)								
Media	Result							
water	Not soluble							
Partition coefficient: n-octanol/ water	Not applicable.							
Auto-ignition temperature	Not applicable.							
Decomposition temperature	Not available.							
Viscosity	Not available.							
Penetration Number (0.1 mm)	>355 at 25°C							
Explosive properties	Not available.							
Oxidising properties	Not available.							
Particle characteristics								
Median particle size	Not available.							
9.2 Other information								
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SECTION 9: Physical and chemical properties

No additional information.

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	The product is stable.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
10.4 Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	Reactive or incompatible with the following 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

Product/ingredient name	Result / Route		thority / nber	Species	Dose	Exposure	Remarks
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	LD50 Dermal	OECD	402	Rat	>2000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	>2000 mg/kg	-	-
isodecyl diphenyl phosphite	LC50 Dermal	OECD	402	Rabbit	>5000 mg/kg	-	-
	LC50 Oral	OECD	401	Rat	3840 mg/kg	-	-
	LC50 Inhalation Vapour	OECD	403	Rat	>8.4 mg/l	4 hours	-
2,6-di-tert-butyl- 4-nonylphenol	LD50 Dermal	OECD	402	Rat	>2000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	>2000 mg/kg	-	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
isodecyl diphenyl phosphite	2500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Test author numb	-	Species	Route / Result	Test concentration	Remarks
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	OECD	405	Rabbit	Eyes - Redness of the conjunctivae	of -	-
	OECD	404	Rabbit	Skin - Moderate irritant	-	-
isodecyl diphenyl phosphite	ASTM	-	Rabbit	Eyes - Slightly irritating to the eyes.	-	-
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SECTION 11: To	xicological	informat	ion			
	OECD	404	Rabbit	Skin - Slightly irritating to the skin.	-	-
2,6-di-tert-butyl- 4-nonylphenol	OECD	405	Rabbit	Eyes - Slightly irritating to the eyes.	-	-
	OECD	404	Rabbit	Skin - Mild irritant	-	-

Sensitiser

Product/ingredient name	Route		ority / Test nber	Species	Result	Remarks
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	skin	OECD	406	Guinea pig	Sensitising	-
isodecyl diphenyl phosphite	skin	OECD	406	Guinea pig	Sensitising	-
2,6-di-tert-butyl- 4-nonylphenol	skin	OECD	429	Mouse	Sensitising	-

GERM CELL MUTAGENICITY

Product/ingredient name	Test authority / Test number	Cell		Туре	Result	Remarks
isodecyl diphenyl phosphite	OECD 471 -		Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 487 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	Based on studies with similar substances.
	OECD 474 -		Experiment: In vivo	Subject: Mammalian- Animal	Negative	Based on studies with similar substances.
2,6-di-tert-butyl- 4-nonylphenol	OECD 471 -		Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 487 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	-
	OECD 4776 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	-

Reproductive toxicity

Product/ingredie name		authority / t number	Species	Route	Exposure	Developmental	Maternal toxicity	Fertility	Remarks
isodecyl diphenyl phosphite	OECD	422	Rat	Oral	-	Negative	Negative	Negative	Based on studies with similar substances
2,6-di-tert-butyl- 4-nonylphenol	OECD	422	Rat	Oral	-	-	Positive	Negative	-

Information on likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation, Eyes.

Potential acute health effects					
Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may delayed following exposure.					
Ingestion	No known significant effects or critical hazards.				
Skin contact	Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.				
Eye contact	No known significant effects or critical hazards.				
Symptoms related to the phys	ical, chemical and toxicological characteristics				
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SECTION 11: Toxicological information

Inhalation	No specific data.
Ingestion	No specific data.
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	No specific data.
Delayed and immediate effe	ects as well as chronic effects from short and long-term exposure
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
Potential chronic health eff	ects
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

11.2 Information on other hazards 11.2.1 Endocrine disrupting properties Not available. Remarks - Endocrine Not available. disruptor - Health 11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name		uthority / number	Species	Type / Result	Exposure	Effects	Remarks
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	-	-	Daphnia	Chronic EC50 6.8 mg/l	48 hours	-	-
isodecyl diphenyl phosphite	OECD	201	Algae	Acute EC50 1.6 mg/l	72 hours	-	-
	OECD	202	Daphnia	Acute EC50 1 to 5 mg/l	48 hours	-	-
	OECD	209	Micro- organism	Acute EC50 >100 mg/l	3 hours	-	-
	OECD	203	Fish	Acute LC50 >16 mg/l	96 hours	-	-
2,6-di-tert-butyl- 4-nonylphenol	OECD	202	Daphnia	Acute EC50 0.124 mg/l	48 hours	-	-
	OECD	209	Micro- organism	Acute EC50 >1000 mg/l	3 hours	-	-
	OECD	201	Algae	Acute ErC50 >100 mg/l	72 hours	-	-
	OECD	203	Fish	Acute LC50 >10 mg/l	96 hours	-	-
	OECD	201	Algae	Chronic EC10 100 mg/l	72 hours	-	-

Environmental hazards

Harmful to aquatic life with long lasting effects.

Based on data available for this or related materials.

12.2 Persistence and degradability

Expected to be biodegradable.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SECTION 12: Ecological information

Product/ingredient name	Test authority / Test number	Result - Exposure	Remarks
isodecyl diphenyl phosphite	-	17 % - 28 days	Not readily biodegradable.
2,6-di-tert-butyl-4-nonylphenol	OECD 302C	31 % - 28 days	-

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	Not available.
Mobility	Non-volatile. Grease. insoluble in water.

12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

12.6 Endocrine disrupting properties	Not available.
Remarks - Endocrine disruptor - Environment	Not available.
12.7 Other adverse effects	No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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).

13.1 Waste treatment methods

Product			
Methods of disposal	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.		
European waste catalogue (EWC)			

Waste code	Waste designation
12 01 12*	spent waxes and fats

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.

Packaging

Methods of disposal

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	European waste catalogue (EWC)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
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

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
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SECTION 14: Transport information

14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for Not available. user

 14.7 Maritime transport in bulk according to IMO instruments
 Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation **Annex XIV** None of the components are listed. Substances of very high concern None of the components are listed. EU Regulation (EC) No. 1907/2006 (REACH) **Annex XVII - Restrictions** Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles **Other regulations REACH Status** The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH. **United States inventory** All components are active or exempted. (TSCA 8b) Australia inventory (AIIC) All components are listed or exempted. **Canada inventory** 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) At least one component is not listed. Korea inventory (KECI) At least one component is not listed. **Philippines inventory** At least one component is not listed. (PICCS) **Taiwan Chemical** All components are listed or exempted. Substances Inventory (TCSI) 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** Hazardous incident ordinance Product name Tribol GR 100-0 PD Product code 468681-DE03 Page: 12/20 Language ENGLISH Version 8.02 Date of issue 23 February 2023 Format Germany (Germany) 22 February 2023. Date of previous issue

SECTION 15: Regulatory information

Hazard class for water	1 (classified according AwSV)
Prohibited Chemicals Regulation (ChemVerbotsV)	When placed on the market in Germany, this product is not subject to the Prohibited Chemicals Regulation (ChemVerbotsV).
Occupational restrictions	Observe employment restrictions in the following: Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz – JArbSchG) Gesetz zum Schutz von Müttern bei der Arbeit, in der Ausbildung und im Studium (Mutterschutzgesetz – MuSchG)
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.

SECTION 16: Other information

Abbreviations and acronyms	ADN = European Provisions concerning the International Carriage of Dangerous Goods by
	Inland Waterway
	ADR = The European Agreement concerning the International Carriage of Dangerous Goods by
	Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	CAS = Chemical Abstracts Service
	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	CSA = Chemical Safety Assessment
	CSR = Chemical Safety Report
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EINECS = European Inventory of Existing Commercial chemical Substances
	ES = Exposure Scenario
	EUH statement = CLP-specific Hazard statement
	EWC = European Waste Catalogue
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978. ("Marpol" = marine pollution)
	OECD = Organisation for Economic Co-operation and Development
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation
	[Regulation (EC) No. 1907/2006]
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
	RRN = REACH Registration Number
	SADT = Self-Accelerating Decomposition Temperature
	SVHC = Substances of Very High Concern
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
	STOT-SE = Specific Target Organ Toxicity - Single Exposure
	TWA = Time weighted average
	UN = United Nations
	UVCB = Complex hydrocarbon substance
	VOC = Volatile Organic Compound
	vPvB = Very Persistent and Very Bioaccumulative
	Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23,
	64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN
	01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN
	01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN
	01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN
	01-2119480375-34, 64742-36-9 / RRN 01-2119480132-48, 64742-57-0 / RRN
	01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8,
	64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119480472-58, 04742-65-9 /
	RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13
	01-21134/4003-13

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Sens. 1, H317 Aquatic Chronic 3, H412	Calculation method Calculation method
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SECTION 16: Other information

Full text of abbreviated H	H315	Causes skin irritation.
statements	H317	May cause an allergic skin reaction.
	H319	Causes serious eye 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.
	H411	Toxic to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B STOT RE 2	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
<u>History</u>		
Date of issue/ Date of revision	23/02/2023.	
Date of previous issue	22/02/2023.	
	Product Stewardship	

✓ Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture				
Product definition	Mixture			
Code	468681-DE03			
Product name	Tribol GR 100-0 PD			
Section 1: Title				
Short title of the exposure scenario	General use of lubricants and greases in vehicles or machinery - Professional			
List of use descriptors	Identified use name: General use of lubricants and greases in vehicles or machinery-Professional			
	Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC20 Sector of end use: SU22			
	Subsequent service life relevant for that use: No.			
	Environmental Release Category: ERC09a, ERC09b Specific Environmental Release Category: ESVOC SpERC 9.6b.v1			
Processes and activities covered by the exposure scenario	Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.			

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure	
Product characteristics:	
Physical state:	Liquid, vapour pressure < 0.5 kPa
Concentration of substance in product:	Covers use of substance/product up to 100 % (unless stated differently)
Frequency and duration of use:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure:	Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented
Contributing scenarios: Operational cond	litions and risk management measures

General measures applicable to all activities:

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product also via contamination on hands.

Operation of equipment containing engine oils and similar Use in contained systems: No other specific measures identified.

Material transfers Non-dedicated facility:

Avoid carrying out activities involving exposure for more than 4 hours per day. Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

Equipment cleaning and maintenance Dedicated facility: Drain down system prior to equipment break-in or maintenance. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Storage: Store substance within a closed system.

Section 2.2: Control of environmental ex	posure
Amounts used:	
EU tonnage of risk determining substance per year:	5.39 Tonnes/year
Frequency and duration of use:	
Emission days	365
Environment factors not influenced by risk management:	
Local freshwater dilution factor	10
Local marine water dilution factor	100
Other conditions affecting environmental exposure:	Negligible wastewater emissions as process operates without water contact.
Release fraction to air (after typical onsite RMMs)	1.00E-04
Release fraction to soil from process (after typical onsite RMMs)	1E-03
Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan)	s Not available.
Technical conditions and measures at process level (source) to prevent release:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:	Prevent discharge of undissolved substance to or recover from onsite wastewater.
Organisational measures to prevent/limit release from site:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant:	
Estimated substance removal from wastewater via on-site sewage treatment	69.1
Assumed domestic sewage treatment plant flow rate (m3/d)	2.00E+3
Maximum allowable site tonnage (M _{Safe}) based on release following total wastewater treatment removal as product:	19111
Conditions and measures related to external treatment of waste for disposal:	External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste:	External recovery and recycling of waste should comply with applicable local and/or national regulations.

Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment	
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).
Exposure estimation and reference to its so	ource - Workers

Section 4: Guidance to check compliance with the exposure scenario

Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Tribol GR 100-0 PD	General use of lubricants and greases in vehicles or machinery - Professional 16/20

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture		
Product definition	Mixture	
Code	468681-DE03	
Product name	Tribol GR 100-0 PD	
Section 1: Title		
Short title of the exposure scenario	General use of lubricants and greases in vehicles or machinery - Industrial	
List of use descriptors	Identified use name: General use of lubricants and greases in vehicles or machinery-Industrial	
	Process Category: PROC01, PROC02, PROC08b, PROC09 Sector of end use: SU03	
	Subsequent service life relevant for that use: No.	
	Environmental Release Category: ERC04, ERC07	
	Specific Environmental Release Category: ATIEL-ATC SPERC 4.Biv1	
Processes and activities covered by the exposure scenario	Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.	

Section 2 Operational conditions and risk management measures

Liquid, vapour pressure < 0.5 kPa
Covers use of substance/product up to 100 % (unless stated differently)
Covers daily exposures up to 8 hours
Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

General measures applicable to all activities:

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product also via contamination on hands.

General exposures (closed systems): No other specific measures identified.

Initial factory fill of equipment Use in contained systems:

No other specific measures identified.

Initial factory fill of equipment Open systems:

Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 4 hours.

Operation of equipment containing engine oils and similar Use in contained systems: No other specific measures identified.

Equipment cleaning and maintenance:

Drain down system prior to equipment break-in or maintenance. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature):

Drain down and flush system prior to equipment break-in or maintenance. Provide extract ventilation to emission points when contact with warm (>50°C) lubricant is likely. Wear chemical-resistant gloves (tested to EN374) in

Tribol GR 100-0 PD

General use of lubricants and greases in vehicles or machinery - Industrial combination with intensive management supervision controls. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Storage:

Store substance within a closed system.

A second a second	
Amounts used:	
EU tonnage of risk determining substance per year:	2.63E+3 Tonnes/year
Frequency and duration of use:	
Emission days	300
Environment factors not influenced by risk management:	
Local freshwater dilution factor	10
Local marine water dilution factor	100
Other conditions affecting environmental exposure:	Negligible wastewater emissions as process operates without water contact.
Release fraction to air (after typical onsite RMMs)	5.00E-05
Release fraction to soil from process (after typical onsite RMMs)	0
Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan)	Not available.
Technical conditions and measures at process level (source) to prevent release:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:	Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant
Organisational measures to prevent/limit release from site:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant:	
Estimated substance removal from wastewater via on-site sewage treatment	69.1
Assumed domestic sewage treatment plant flow rate (m3/d)	2.00E+3
Maximum allowable site tonnage (M _{Safe}) based on release following total wastewater treatment removal as product:	7594049
Conditions and measures related to external treatment of waste for disposal:	External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external	External recovery and recycling of waste should comply with applicable local and/or national regulations.

Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its so Exposure assessment (environment):	urce - Environment Used ECETOC TRA model (May 2010 release).	
Exposure estimation and reference to its so	ource - Workers	╡
Exposure assessment (human):	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

Section 4: Guidance to check compliance with the exposure scenario

Tribol GR 100-0 PD

General use of lubricants and greases in vehicles or machinery - Industrial

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Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.