## **SAFETY DATA SHEET**



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

1.1 Product identifier	
Product name	Tribol GR 100-1 PD
UFI:	🗙 G70-60TJ-X005-D1QV
Product code	468685-DE03
SDS no.	468685
	83 19 2 160 340
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	f the safety data sheet
Supplier	BP Europa SE Geschäftsbereich Industrieschmierstoffe Erkelenzer Straße 20 D-41179 Mönchengladbach Germany
	Telefon: +49 (0)800 7235-074
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]

8 October 2020.

Skin Sens. 1, H317 Aquatic Chronic 3, H412

Date of previous issue

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	<b>₩</b> G70-60TJ-X005-D1QV				
Signal word	Warning				
Hazard statements	H317 - May cause an allergic skin r H412 - Harmful to aquatic life with l		ng effects.		
Precautionary statements					
Prevention	280 - Wear protective gloves. P273 - Avoid release to the environ P261 - Avoid breathing dust.	ment.			
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## **SECTION 2: Hazards identification**

Response	₱362 + 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) Isodecyl diphenyl phosphite 2,6-di-tert-butyl-4-nonylphenol
Supplemental label elements	Not applicable.
EU Regulation (EC) No. 1907/2	2006 (REACH)
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Special packaging requirement	nts
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.

## **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

Product definitionMixtureHighly refined mineral oil and additives. Thickening agent.

Identifiers	Q	% Regulation (EC) No. 1272/2008 [CLP]	Туре
CAS: 68516-84-7	≤3	Eye Irrit. 2, H319	[1]
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]
REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8 Index: 649-468-00-3	≤3	Asp. Tox. 1, H304	[1]
EC: 247-777-4 CAS: 26544-23-0	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
REACH #: 01-2120759723-46 EC: 224-320-7 CAS: 4306-88-1	<1	Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] )
		Product code 468685-DE03 Page	: 2/18
	CAS: 68516-84-7 REACH #: 01-0000016000-92 EC: 412-780-3 Index: 042-004-00-5 REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8 Index: 649-468-00-3 EC: 247-777-4 CAS: 26544-23-0 REACH #: 01-2120759723-46 EC: 224-320-7	CAS: $68516-84-7$ $\leq 3$ REACH #: 01-0000016000-92 $\leq 3$ EC: $412-780-3$ $\leq 3$ Index: $042-004-00-5$ $\leq 3$ REACH #: $01-2119487077-29$ $\leq 3$ EC: $265-158-7$ $\leq 3$ CAS: $64742-55-8$ $\leq 449-468-00-3$ EC: $247-777-4$ $< 1$ CAS: $26544-23-0$ $< 1$ REACH #: $01-2120759723-46$ $< 1$ REACH #: $01-2120759723-46$ $< 1$ EC: $224-320-7$ $< 1$	Image: CAS: 68516-84-7 $\leq 3$ Eye Irrit. 2, H319REACH #: 01-0000016000-92 $\leq 3$ Skin Irrit. 2, H315EC: 412-780-3Eye Irrit. 2, H315Index: 042-004-00-5Skin Sens. 1, H317Aquatic Chronic 2, H411REACH #: 01-2119487077-29REACH #: 01-2119487077-29 $\leq 3$ EC: 265-158-7CAS: 64742-55-8Index: 649-468-00-3Skin Irrit. 2, H315EC: 247-777-4<1

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### **SECTION 3: Composition/information on ingredients**

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

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

#### SECTION 4: First aid measures

4.1 Description of first aid meas	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 detailed 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. Potential risk of transient stinging or redness if accidental eye contact occurs. Eye contact

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physicianTreatment should in general be symptomatic and directed to relieving any effects.<br/>In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br/>The exposed person may need to be kept under medical surveillance for 48 hours.<br/>Note: High Pressure Applications<br/>Injections through the skin resulting from contact with the product at high pressure constitute a<br/>major medical emergency. Injuries may not appear serious at first but within a few hours tissue<br/>becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis.<br/>Surgical exploration should be undertaken without delay. Thorough and extensive debridement<br/>of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit<br/>permanent damage. Note that high pressure may force the product considerable distances<br/>along tissue planes.

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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	n the substance or mixture
Hazards from the substance or mixture	No specific fire or explosion hazard.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide) metal oxide/oxides nitrogen oxides (NO, NO <sub>2</sub> etc.) sulphur oxides (SO, SO <sub>2</sub> , 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, prote	ctive 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	Fspecialised 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 co	ntainment 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

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### **SECTION 7: Handling and storage**

8.1 Control parameters	
	on contains generic advice and guidance. The list of Identified Uses in Section 1 should be se-specific information provided in the Exposure Scenario(s).
<b>SECTION 8: Exposur</b>	e controls/personal protection
7.3 Specific end use(s) Recommendations	See section 1.2 and Exposure scenarios in annex, if applicable.
Germany - Storage code	11
Not suitable	Frolonged exposure to elevated temperature
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.
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.
Protective measures	Fut 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.

#### **Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring** If this product contains ingredients with exposure limits, personal, workplace atmosphere or procedures biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

#### **Derived No Effect Level**

No DNELs/DMELs available.

#### **Predicted No Effect Concentration**

No PNECs available

### 8.2 Exposure controls

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Appropriate engineering controls	Provide exhaust ventilation or other exconcentrations below their respective All activities involving chemicals shou exposures are adequately controlled. after other forms of control measures Personal protective equipment should kept in good condition and properly n Your supplier of personal protective ex appropriate standards. For further in The final choice of protective equipments and protective equipments and protective explored appropriate standards. For further in the final choice of personal protective equipments and protective equipments and protective equipments and protective equipments and protective equipments are that all items of personal protective equipments are the standards.	e occup uld be a Perso s (e.g. e d confo naintair equipm formati ent will	ational exposur assessed for the nal protective e engineering con orm to appropria ned. ent should be c on contact your depend upon a	e limits. bir risks to quipment s trols) have te standar onsulted fo national c a risk asse	health, to e should only been suita ds, be suit or advice o organisation ssment. It i	ensure v be considered ably evaluated. able for use, be n selection and n for standards.
Hygiene measures	Wash hands, forearms and face thore smoking and using the lavatory and a should be used to remove potentially before reusing. Ensure that eyewash location.	at the e contar	nd of the workir ninated clothing	ng period. J. Wash co	Appropriat ontaminate	te techniques ed clothing
<b>Respiratory protection</b>						
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# SECTION 8: Exposure controls/personal protection

SECTION 8: Exposure	controls/personal protection
	In case of insufficient ventilation, wear suitable respiratory equipment. For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m3), or any powered, air-purifying respirator equipped with hood or helmet and HEPA filter (for oil mists less than 125 mg/m3). Where organic vapours are a potential hazard during metalworking operations, a combination particulate and organic vapour filter may be necessary. 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.
Eye/face protection Skin protection	Safety glasses with side shields.
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
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## SECTION 8: Exposure controls/personal protection

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 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**

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	Grease
Colour	Brown. [Dark]
Odour	Not available.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Open cup: 223°C (433.4°F) [Estimated. Based on Lubricants - Base Oils]
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Density	<1000 kg/m³ (<1 g/cm³) at 20°C
Solubility(ies)	insoluble in water.
Partition coefficient: n-octanol/ water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

#### 9.2 Other information

No additional information.

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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 toxicological effects

Product/ingredient name	Result / Route		ithority / 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	-	-

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

Product/ingredient name		ority / Test mber	Species	Route / Result	Test concentration	Remarks
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	OECD	404	Rabbit	Skin - Moderate irritant	-	-
	OECD	405	Rabbit	Eyes - Redness of the conjunctivae	-	-

#### **Sensitiser**

Product/ingredient name	Route	ute Test authority / Test number		Species	Result	Remarks	
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	skin	OECD	406	Guinea pig	Sensitising	-	
Information on likely routes of exposure	Routes	of entry anticipated: D	ermal, Inha	alation.			
Potential acute health eff	<u>ects</u>						
Inhalation		Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.					
Ingestion	No knov	vn significant effects o	or critical ha	zards.			
Skin contact	Defattin	g to the skin. May ca	use skin dry	ness and irrita	tion. May cause	an allergic skin reactior	
Eye contact	No knov	vn significant effects o	or critical ha	zards.			
Symptoms related to the	physical, che	mical and toxicologi	cal charac	<u>teristics</u>			
Inhalation	No spec	cific data.					
Ingestion	No spec	ifia data					

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### **SECTION 11: Toxicological information**

	-
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	<u>ects</u>
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.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Test authority / Test number	Species	Type / Result	Exposure	Effects	Remarks
-	Daphnia	Chronic EC50 6.8 mg/l	48 hours	-	-
	-	- Daphnia		- Daphnia Chronic EC50 6.8 mg/l 48 hours	- Daphnia Chronic EC50 6.8 mg/l 48 hours -

**Environmental hazards** 

Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Not expected to be rapidly degradable.

#### **12.3 Bioaccumulative potential**

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	Not available.
Mobility	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 Other adverse effects	No known significant effects or critical hazards.
----------------------------	---

Yes.

### **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

Methods of disposal

#### **Product**

Dookoging

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

#### 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							
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## **SECTION 13: Disposal considerations**

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	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

**14.6 Special precautions for** Not available. **user** 

14.7 Transport in bulkNot available.according to IMOinstruments

## **SECTION 15: Regulatory information**

8 October 2020.

Date of previous issue

15.1 Safety, health and environ	15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture					
EU Regulation (EC) No. 1907/2	EU Regulation (EC) No. 1907/2006 (REACH)					
Annex XIV - List of substanc	Annex XIV - List of substances subject to authorisation					
Annex XIV	Annex XIV					
None of the components are	None of the components are listed.					
Substances of very high co	<u>ncern</u>					
None of the components are	e listed.					
EU Regulation (EC) No. 1907/2	2006 (REACH)					
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.					
Other regulations						
REACH Status	The company, as identified in s current requirements of REAC	Section 1, sells this product in the H.	EU in compliance with the			
United States inventory (TSCA 8b)	All components are active or e	xempted.				
Australia inventory (AICS)	At least one component is not	listed.				
Canada inventory	At least one component is not	listed in DSL but all such compor	ents are listed in NDSL.			
Product name Tribol GR 100-1 F	D	Product code 468	685-DE03 Page: 10/18			
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### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

## **SECTION 15: Regulatory information**

galot						
China inventory (IECSC)	All components a	are listed or exempted.				
Japan inventory (ENCS)	At least one com	ponent is not listed.				
Korea inventory (KECI)	At least one com	ponent is not listed.				
Philippines inventory (PICCS)	At least one com	ponent is not listed.				
Taiwan Chemical Substances Inventory (TCSI)	are listed or exempted.					
Ozone depleting substances	<u>(1005/2009/EU)</u>					
Not listed.						
Prior Informed Consent (PIC	) (649/2012/EU)					
Not listed.	<u>,                                     </u>					
EU - Water framework directive - Priority substances						
None of the components are lis Seveso Directive	sieu.					
This product is not controlled un	der the Severa Di	ractive				
National regulations						
Hazardous incident ordinance	e					
Hazard class for water	1	(classified according AwSV)				
Prohibited Chemicals Regulation (ChemVerbotsV)	When placed o Regulation (Ch	on the market in Germany, this product is not subject to the Prohibited Chemicals				
Occupational restrictions	Gesetz zum So Gesetz zum So	oyment restrictions in the following: chutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz – JArbSchG) chutz von Müttern bei der Arbeit, in der Ausbildung und im Studium lesetz – MuSchG)				
15.2 Chemical safety assessment		fety Assessment has been carried out for one or more of the substances within 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						
Product name Tribol GR 100-1	PD <b>Product code</b> 468685-DE03 <b>Page: 11/18</b>						
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### **SECTION 16: Other information**

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 01-2119487077-29, 64742-56-9 / 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 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

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
Full text of abbreviated H statements	H304 H315 H317 H319 H400 H410 H411	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Asp. Tox. 1 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B
<u>History</u>		
Date of issue/ Date of revision	30/04/2021.	
Date of previous issue	08/10/2020.	
Prepared by	Product Stewardship	
Indicates information that	has changed from previou	isly issued version.

#### Notice to reader

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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.

Γ	Product name Tribol GR 100-1 PD			Product code 468685-DE03		Page: 12/18	
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## Annex to the extended Safety Data Sheet (eSDS)

Industrial

Vixture
468685-DE03
Tribol GR 100-1 PD
General use of lubricants and greases in vehicles or machinery - Industrial
dentified use name: General use of lubricants and greases in vehicles or nachinery-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
Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed nachinery (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 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 100-1 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.

Amounto used	
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 <sub>Safe</sub> ) 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 set	ource - Environment
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).
Exposure estimation and reference to its set	ource - Workers
Exposure assessment (human):	The ECETOC TRA tool has been used to estimate workplace

### Section 4: Guidance to check compliance with the exposure scenario

Tribol GR 100-1 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.



## Annex to the extended Safety Data Sheet (eSDS)

Professional

ld	entification of the substa	ance or mixture
	Product definition	Mixture
	Code	468685-DE03
	Product name	Tribol GR 100-1 PD
S	ection 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 conc	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 exp	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)	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 <sub>Safe</sub> ) 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 set	ource - Environment
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).
Exposure estimation and reference to its set	ource - Workers

### Section 4: Guidance to check compliance with the exposure scenario

Tribol GR 100-1 PD	General use of lubricants and greases in vehicles or machinery - Professional
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

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