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	
Product code	

SDS #

**Product type** 

**Castrol Power 1 R 40** 469399-IT01 469399 Liquid.

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

	Identified uses				
	d greases in vehicles or machinery-Industrial d greases in vehicles or machinery-Professional				
Use of the substance/ mixture	Motorcycle engine oil. For specific application advice see appropriate Technical Data Sheet or consult our company representative.				
1.3 Details of the supplier of	the safety data sheet				
Supplier	Lubricants UK Limited, Chertsey Road, Sunbury On Thames, Middlesex, TW16 7BP				
	+44 (0)345 600 8125				
E-mail address	MSDSadvice@bp.com				
1.4 Emergency telephone nu	umber				
EMERGENCY TELEPHONE NUMBER	Carechem: +44 (0) 1235 239 670 (24/7)				
SECTION 2: Hazards identification					
SECTION 2: Hazarus					
	stance or mixture				
	stance or mixture Mixture				
2.1 Classification of the subs Product definition					
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412	Mixture				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] It of the H statements declared above.				
2.1 Classification of the subs Product definition <u>Classification according to</u> Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS]				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] It of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] It of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] It of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] at of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] At of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects. P102 - Keep out of reach of children.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] at of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements General Prevention	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] At of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements General	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] At of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. P273 - Avoid release to the environment.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements General Prevention Response	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] At of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. P273 - Avoid release to the environment. Not applicable.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements General Prevention Response Storage	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] tt of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. P273 - Avoid release to the environment. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements General Prevention Response Storage Disposal	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS]  tt of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards.  No signal word. H412 - Harmful to aquatic life with long lasting effects.  P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. P273 - Avoid release to the environment. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements General Prevention Response Storage Disposal Hazardous ingredients Supplemental label	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] t of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. P273 - Avoid release to the environment. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements General Prevention Response Storage Disposal Hazardous ingredients Supplemental label elements	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] t of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. P273 - Avoid release to the environment. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.				
2.1 Classification of the subs Product definition Classification according to Aquatic Chronic 3, H412 See Section 16 for the full tex See sections 11 and 12 for m 2.2 Label elements Signal word Hazard statements Precautionary statements General Prevention Response Storage Disposal Hazardous ingredients Supplemental label elements EU Regulation (EC) No. 190 Product name Castrol Power	Mixture Regulation (EC) No. 1272/2008 [CLP/GHS] t of the H statements declared above. ore detailed information on health effects and symptoms and environmental hazards. No signal word. H412 - Harmful to aquatic life with long lasting effects. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. P273 - Avoid release to the environment. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.				

## SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Special packaging requireme	<u>nts</u>
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: Product diluted with petrol must be handled with the same precautions used for petrol. Before mixing, the Safety Data Sheet for petrol should be consulted for any precautionary measures necessary. USED ENGINE OILS Used engine oil may contain hazardous components which have the potential to cause skin cancer. See Toxicological Information, section 11 of this Safety Data Sheet.

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

**3.2 Mixtures** 

Product definition Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₩-[(1,1,3,3-tetramethylbutyl) phenyl]naphthalen-1-amine	REACH #: 01-2119972293-33 EC: 257-406-8 CAS: 51772-35-1	≤3	Aquatic Chronic 4, H413	-	[1]
Triphenyl phosphite	EC: 202-908-4 CAS: 101-02-0 Index: 015-105-00-7	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5% M [Acute] = 1 M [Chronic] = 1	[1]

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

Type

[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 a	aid measures
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. Get medical attention if irritation develops.
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.

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<b>SECTION 4: First aid</b>	SECTION 4: First aid measures				
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.				
4.2 Most important sympton	ns and effects, both acute and delayed				
See Section 11 for more de	tailed information on health effects and symptoms.				
Potential acute health effect	<u>ts</u>				
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.				
Eye contact	No known significant effects or critical hazards.				
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure				
Inhalation	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.				
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.				
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.				
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.				

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.
	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.

# **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 fro	om the substance or mixture				
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst.				
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO <sub>2</sub> etc.)				
5.3 Advice for firefighters					
Special precautions for fire-fighters					
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, protective equipment and emergency procedures

For non-emergency	Contact emergency personnel. No action shall be taken involving any personal risk or without
personnel	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. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate
	personal protective equipment.

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### **SECTION 6: Accidental release measures**

For emergency responders	Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. 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	ontainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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. NOTE: Product diluted with petrol must be handled with the same precautions used for petrol. Before mixing, the Safety Data Sheet for petrol should be consulted for any precautionary measures necessary.
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.
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 away from heat and direct sunlight. 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.
7.3 Specific end use(s)	
Recommendations	See section 1.2 and Exposure scenarios in annex, if applicable.

### **SECTION 8: Exposure controls/personal protection**

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.

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

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# **SECTION 8: Exposure controls/personal protection**

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.				
Derived No Effect Level No DNELs/DMELs available.			·		
Predicted No Effect Concent	ration				
No PNECs available					
8.2 Exposure controls					
Appropriate engineering controls	Provide exhaust ventilation or othe concentrations below their respect All activities involving chemicals sl exposures are adequately controlle after other forms of control measu Personal protective equipment sho kept in good condition and properl Your supplier of personal protective appropriate standards. For further The final choice of protective equip ensure that all items of personal p	tive occupation hould be assested. Personal p res (e.g. engin- buld conform to y maintained. re equipment s r information co pment will dependent	nal exposure limits. ssed for their risks to protective equipment eering controls) hav appropriate standa should be consulted ontact your national end upon a risk ass	o health, to e t should only ve been suita ards, be suita for advice or organisation essment. It is	nsure be considered bly evaluated. able for use, be n selection and for standards.
Individual protection measu					
Hygiene measures	Wash hands, forearms and face th smoking and using the lavatory an stations and safety showers are cl	d at the end of	f the working period		
Respiratory protection	In case of insufficient ventilation, v The correct choice of respiratory p conditions of work and use, and th should be developed for each inte therefore be chosen in consultation of the working conditions.	rotection depe le condition of nded applicatio	ends upon the chem the respiratory equi on. Respiratory prot	icals being h pment. Safet ection equipr	ty procedures ment should
Eye/face protection <u>Skin protection</u>	Safety glasses with side shields.				
Hand protection	General Information:				
	Because specific work environmer should be developed for each inte depends upon the chemicals being provide protection for only a limited best chemically resistant gloves w	nded applicatio g handled, and d time before tl	on. The correct choi I the conditions of w hey must be discard	ice of protect ork and use. ded and repla	ive gloves Most gloves aced (even the
	Gloves should be chosen in consu a full assessment of the working c		supplier / manufac	turer and tak	ing account of
	Recommended: Nitrile gloves. Breakthrough time:				
	Breakthrough time data are genera and represent how long a glove ca is important when following breakt conditions are taken into account. technical information on breakthro Our recommendations on the sele	an be expected hrough time re Always consul ugh times for t	I to provide effective commendations tha It with your glove su he recommended g	e permeation at actual work pplier for up-	resistance. It cplace
	Continuous contact:				
	Gloves with a minimum breakthrou can be obtained. If suitable gloves are not available breakthrough times may be accep replacement regimes are determin	to offer that le table as long a	evel of protection, glass appropriate glove	oves with she	orter
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# **SECTION 8: Exposure controls/personal protection**

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 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

Physical state	Liquid.
Colour	Amber.
Odour	Not available.
Odour threshold	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flammability	Not available.

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Lower and upper explosion limit	Not available.						
Flash point	Closed cup: 170°C	(338°F)	Pensky-	Martens]			
Auto-ignition temperature	Ingredient name		°C	°F	N	lethod	
	Castor oil		448	838.4			
	Propane-1,2-diol, propo	xylated	305	581	E	U A.15	
Decomposition temperature	Not available.						
рН	Not applicable.						
Kinematic viscosity	Kinematic: 142 mm Kinematic: 14.2 to 1				t 100°C		
Solubility							
	Media	F	Result				
	water	No	ot soluble	e			
Partition coefficient n-octanol/ water (log value)	Not applicable.	ľ					
Vapour pressure		Vapour Pressure at 20°C		Vapour pressure at 50°C			
vapour pressure		Vapoι	ır Press	ure at 20°C	Vapo	ur pres	sure at 50°C
vapour pressure	Ingredient name	Vapou mm Hg	1	ure at 20°C	Vapo mm Hg	kPa	Method
vapour pressure	Ingredient name Propane-1,2-diol, propoxylated	<u> </u>	1	1	mm		1
	Propane-1,2-diol,	mm Hg	kPa	Method	mm		1
	Propane-1,2-diol, propoxylated Distillates (petroleum), solvent-dewaxed	<b>mm Hg</b>	<b>kPa</b> 0	Method OECD 104	mm		1
	Propane-1,2-diol, propoxylated Distillates (petroleum), solvent-dewaxed heavy paraffinic Distillates (petroleum), hydrotreated heavy	mm Hg 0 <0.08 <0.08	kPa 0 <0.011 <0.011	Method OECD 104 ASTM D 5191	mm		1
Density and/or Relative density	Propane-1,2-diol, propoxylated Distillates (petroleum), solvent-dewaxed heavy paraffinic Distillates (petroleum), hydrotreated heavy paraffinic	mm Hg 0 <0.08 <0.08	kPa 0 <0.011 <0.011	Method OECD 104 ASTM D 5191	mm		1
Density and/or Relative density Relative vapour density	Propane-1,2-diol, propoxylated Distillates (petroleum), solvent-dewaxed heavy paraffinic Distillates (petroleum), hydrotreated heavy paraffinic <1000 kg/m³ (<1 g/m	mm Hg 0 <0.08 <0.08	kPa 0 <0.011 <0.011	Method OECD 104 ASTM D 5191	mm		1
Density and/or Relative density	Propane-1,2-diol, propoxylated Distillates (petroleum), solvent-dewaxed heavy paraffinic Distillates (petroleum), hydrotreated heavy paraffinic <1000 kg/m³ (<1 g/m	mm Hg 0 <0.08 <0.08	kPa 0 <0.011 <0.011	Method OECD 104 ASTM D 5191	mm		1

9.2 Other information **Evaporation rate** Not available. **Explosive properties** Not available. **Oxidising properties** Not available.

# **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.

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

1.1 Information on hazard	classes as defined in Regulation (EC) No 1272/2008
Acute toxicity estimates	
Not available.	
Information on likely routes of exposure	Routes of entry anticipated: Dermal, Inhalation, Eyes.
Potential acute health effect	<u>its</u>
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.
Eye contact	No known significant effects or critical hazards.
Symptoms related to the ph	nysical, chemical and toxicological characteristics
Inhalation	May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
Ingestion	No specific data.
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Eye contact	No specific data.
Delayed and immediate effe	ects as well as chronic effects from short and long-term exposure
Inhalation	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
Potential chronic health eff	ects
General	USED ENGINE OILS Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.
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

Environmental hazards Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Expected to be biodegradable.

#### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

#### 12.4 Mobility in soil

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# SECTION 12: Ecological information

Soil/water partition	Not available.
coefficient (Koc)	
Mobility	Spillages may penetrate the soil causing ground water contamination.

#### 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.

SECTION 42. Dispased	lespeideretiene
12.7 Other adverse effects	No known significant effects or critical hazards.
Other ecological information	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.
Remarks - Endocrine disruptor - Environment	Not available.
12.6 Endocrine disrupting properties	Not available.

#### 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

Hazardous waste

#### Product

Methods of disposal	Where possible, arrange f
	licensed waste disposal co

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

#### European waste catalogue (EWC)

Waste code	Waste designation
13 02 08*	other engine, gear and lubricating oils

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.
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. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. 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)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

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SECTION 14: Transpo	ort information
4.6 Special precautions for user	Not available.
4.7 Maritime transport in bulk according to IMO nstruments	Not available.
SECTION 15: Regulat	ory information
5.1 Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907	/2006 (REACH)
Annex XIV - List of substan	ces subject to authorisation
Annex XIV	
None of the components are	e listed.
Substances of very high c	<u>oncern</u>
None of the components a	ire 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 (TSCA 8b)	All components are active or exempted.
Australia inventory (AIIC)	All components are listed or exempted.
Canada inventory	All components are listed or exempted.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (CSCL)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	Not determined.
Ozone depleting substance	s (1005/2009/EU)
Not listed.	
Prior Informed Consent (PIC Not listed.	<u>C) (649/2012/EU)</u>
Persistent Organic Pollutan Not listed.	<u>ts</u>
EU - Water framework direc	tive - Priority substances
None of the components are	listed.
Seveso Directive	
This product is not controlled u	nder the Seveso Directive.
15.2 Chemical safety assessment	A Chemical Safety Assessment has been carried out for one or more of the substances with this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

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# 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
	01-2119487077-29, 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, 64742-63-8, 64742-65-0 / RRN 01-2110487080 42, 72623 85-0 /
	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 01-2119474880-13
	01-2119474889-13

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

Classification		Justification				
Aquatic Chronic 3, H412		Calculation method				
Full text of abbreviated H	of abbreviated H H224 Extremely flammable liquid and vapour.					
statements	H301	Toxic if swallowed.				
	H302	Harmful if swallowed.				
	H311	Toxic in contact with skin.				
	H314	Causes severe skin burns and eye damage.				
	H315	Causes skin irritation.				
	H318	Causes serious eye damage.				
	H319	Causes serious eye irritation.				
H331 Toxic if inhaled.						
	H335	May cause respiratory irritation.				
	H340	May cause genetic defects.				
	H341	Suspected of causing genetic defects.				
	H350	May cause cancer. May cause damage to organs through prolonged or repeated exposure.				
	H373					
	H400	Very toxic to aquatic life.				
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### SECTION 16: Other information

	H410 H413	Very toxic to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 4 Carc. 1B Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 1 Muta. 1B Muta. 2 Skin Corr. 1B Skin Irrit. 2 STOT RE 2	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 CARCINOGENICITY - Category 1B SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 1 GERM CELL MUTAGENICITY - Category 1B GERM CELL MUTAGENICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
Date of issue/ Date of revision	11/09/2023.	
Date of previous issue	09/12/2022.	
Prepared by	Product Stewardship	

#### **V** 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.

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

Industrial

Identification of the subst	ance or mixture
Product definition	Mixture
Code	469399-IT01
Product name	Castrol Power 1 R 40
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, PROC08b, PROC09, PROC02
	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

Section 2.1 Control of worker exposure No exposure scenario is presented because the product is not classified for Human Health Contributing scenarios: Operational conditions and risk management measures

Castrol Power 1 R 40	General use of lubricants and greases in vehicles or machinery - Industria
Technical conditions and measures at process level (source) to prevent release:	Common practices vary across sites thus conservative process release estimates used.
Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan)	s Not available.
Release fraction to soil from process (after typical onsite RMMs)	0
Release fraction to air (after typical onsite RMMs)	5.00E-05
Other conditions affecting environmental exposure:	Negligible wastewater emissions as process operates without water contact.
Local marine water dilution factor	100
Local freshwater dilution factor	10
Environment factors not influenced by risk management:	
Emission days	300
Frequency and duration of use:	
EU tonnage of risk determining substance per year:	2.63E+3 Tonnes/year
Amounts used:	
Section 2.2: Control of environmental ex	posure

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	Not available.
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:	Not available.
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	source - 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
Health	No exposure scenario is presented because the product is not classified for Human Health



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

Professional

Identification of the subst	ance or mixture
Product definition	Mixture
Code	469399-IT01
Product name	Castrol Power 1 R 40
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: ATIEL-ATC SPERC 9.Bp.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 No exposure scenario is presented because the product is not classified for Human Health Contributing scenarios: Operational conditions and risk management measures

	machinery - Professiona 15/16
Castrol Power 1 R 40	release estimates used. General use of lubricants and greases in vehicles or
Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan) Fechnical conditions and measures at	s Not available. Common practices vary across sites thus conservative process
Release fraction to soil from process (after typical onsite RMMs)	1E-03
Release fraction to air (after typical onsite RMMs)	1.00E-04
Other conditions affecting environmental exposure:	Negligible wastewater emissions as process operates without water contact.
Local marine water dilution factor	100
Local freshwater dilution factor	10
Environment factors not influenced by risk management:	
Emission days	365
Frequency and duration of use:	
EU tonnage of risk determining substance per year:	5.39 Tonnes/year
Amounts used:	
Section 2.2: Control of environmental ex	posure

echnical on-site conditions and measures	Prevent discharge of undissolved substance to or recover from onsite
o reduce or limit discharges, air emissions nd releases to soil:	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 elease from site:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
conditions and measures related to sewage reatment plant:	
Estimated substance removal from wastewater via on-site sewage treatment	No data available yet
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 wastewate treatment removal as product:	No data available yet r
conditions and measures related to external reatment 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 ecovery 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 s	
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).
Exposure estimation and reference to its s	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
Health	No exposure scenario is presented because the product is not classified for Human Health