

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product name Castrol Power 1 R 40
Product code 469399-BE02
SDS # 469399
Product type Liquid.

**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 Castrol Holdings Europe B.V.,
 d'Arcyweg 76, 3198NA
 Europoort
 Rotterdam

Castrol Belgium BV,
 Langerbuggerkaai 18,
 9000 Gent

+32 (0)800 49312
E-mail address MSDSadvice@bp.com

1.4 Emergency telephone number

**EMERGENCY
TELEPHONE NUMBER** Carechem: +44 (0) 1235 239 670 (24/7)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

Aquatic Chronic 3, H412

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

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

2.2 Label elements**Hazard pictograms**

Warning

Hazard statements

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

General

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

Prevention

P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

Storage

Not applicable.

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SECTION 2: Hazards identification

Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	Triphenyl phosphite
Supplemental label elements	Not applicable.
EU Regulation (EC) No. 1907/2006 (REACH)	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Special packaging requirements	
Containers to be fitted with child-resistant fastenings	Not applicable.
Tactile warning of danger	Not applicable.
2.3 Other hazards	
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.
Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.	 This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.
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.

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	Type
N-[(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	REACH #: 01-2119511213-58 EC: 202-908-4 CAS: 101-02-0 Index: 015-105-00-7	<2.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg 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.

[1] Substance classified with a health or environmental hazard

SECTION 4: First aid measures

4.1 Description of first 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.
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SECTION 4: First aid measures

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	See: Section 11. Toxicological Information - Potential acute health effects: Eye contact

Delayed and immediate effects 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.

4.3 Indication of any immediate medical attention and special treatment needed

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.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Hazards from the 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 ₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO ₂ etc.) phosphorus oxides

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, protective equipment and emergency procedures	
For non-emergency personnel	Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.
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 containment 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

7.1 Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid 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.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits****Europe**

No exposure limit value known.

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

Recommended monitoring procedures

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

Biological exposure indices**Product/ingredient name****Exposure indices**

No exposure indices known.

Derived No Effect Level

Product/ingredient name	Type	Exposure	Value	Population	Effects
Triphenyl phosphite	DNEL	Long term Inhalation -	0.53 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal -	0.15 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal -	11.7 µg/cm ²	Workers	Local

PNECs

Not available.

8.2 Exposure controls**Appropriate engineering controls**

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

Individual protection measures**Hygiene measures**

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

Respiratory protection

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

Eye/face protection

Safety glasses with side shields.

Skin protection**Hand protection****General Information:**

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

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of

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SECTION 8: Exposure controls/personal protection

a full assessment of the working conditions.

Recommended: Nitrile gloves.

Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

Glove Thickness:

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

Skin and body

Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Refer to standards:

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

SECTION 8: Exposure controls/personal protection

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

Appearance

Physical state

Liquid.

Colour

Amber. [Light]

Odour

Unfragranced

Odour threshold

Not available.

pH

Not applicable.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

Closed cup: 200°C (392°F) [Pensky-Martens ASTM D 93]

Evaporation rate

Not available.

Flammability

Not available.

Lower and upper explosion limit

Not available.

Vapour pressure

Ingredient name	Vapour Pressure at 20°C		Vapour pressure at 50°C	
	mm Hg	kPa	Method	mm Hg
Propane-1,2-diol, propoxylated	0.00063	0.000084	OECD 104	
Distillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM D 5191	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<0.07501	<0.01	ASTM D 5191	
diisodecyl adipate	0.00000011	0.000000015	OECD 104	
Triphenyl phosphite	0.00052	0.000069	EU A.4	

Vapour density

Not available.

Density and/or Relative density Solubility(ies)

Not available.

<1000 kg/m³ (<1 g/cm³) at 15°C

Media	Result
water	Not soluble

Partition coefficient n-octanol/ water (log value)

Not applicable.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Kinematic viscosity

Kinematic: 146 mm²/s (146 cSt) at 40°C
Kinematic: 14.7 to 15.7 mm²/s (14.7 to 15.7 cSt) at 100°C

Explosive properties

Not available.

Oxidising properties

Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
10.2 Chemical stability	The product is stable.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
10.4 Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result
 -[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine	Rat - Oral - LD50 >2000 mg/kg OECD 423
	Rat - Dermal - LD50 >2000 mg/kg OECD 402
triphenyl phosphite	Rat - Oral - LD50 1590 mg/kg OECD 401
	Rabbit - Dermal - LD50 >2000 mg/kg OECD 402
	Rat - Inhalation - LC50 Dusts and mists >6.7 mg/l [1 hours] OECD 403

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Castrol Power 1 R 40	50019.3	N/A	N/A	N/A	N/A
triphenyl phosphite	500	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result
 -[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine	RhE - Skin - Non-irritant to skin. OECD 439
triphenyl phosphite	Rabbit - Skin - Irritant

Serious eye damage/eye irritation

Product/ingredient name	Result
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SECTION 11: Toxicological information

☒ N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine

RhCE - Eyes - Non-irritating to the eyes.
OECD 492

BCOP - Eyes - Non-irritating to the eyes.
OECD 437

triphenyl phosphite

Rabbit - Eyes - Irritant
OECD 405

Respiratory corrosion/irritation

Not available.

Respiratory or skin sensitization**Product/ingredient name**

☒ N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine

Result

Guinea pig - skin
OECD 406
Result: Not sensitising

triphenyl phosphite

Guinea pig - skin
OECD 429
Result: Sensitising

Germ cell mutagenicity**Product/ingredient name**

☒ N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine

Result

In vitro - Bacteria
OECD [Bacterial Reverse Mutation Test]
Result: Negative

In vitro - Mammal - species unspecified
OECD [In vitro Mammalian Cell Gene Mutation Test]
Result: Negative

In vitro - Mammal - species unspecified
OECD [In vitro Mammalian Chromosomal Aberration Test]
Result: Negative

triphenyl phosphite

In vitro - Bacteria
OECD 471
Result: Negative

In vitro - Mammalian-Animal
OECD 487
Result: Negative

In vivo - Mammalian-Animal
OECD 474
Result: Negative

Carcinogenicity

Not available.

Reproductive toxicity**Product/ingredient name****Result**

SECTION 11: Toxicological information

 N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine

Rat - Oral
OECD 422
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative

triphenyl phosphite

Rat - Oral
OECD 422
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)**Product/ingredient name****Result**

 triphenyl phosphite

STOT RE 2, H373

Aspiration hazard

Not available.

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

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

 See: Section 11. Toxicological Information - Potential acute health effects: Eye contact

Symptoms related to the physical, 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
redness
dryness
cracking

Eye contact

No specific data.

Delayed and immediate effects 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 effects

Not available.

Conclusion/Summary [Product]

Not available.

General

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Not available.

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Conclusion/Summary [Product]

This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine

Result

Acute - ErC50

OECD 201

Algae

>100 mg/l [72 hours]

Acute - EC50

OECD 202

Daphnia

>100 mg/l [48 hours]

Acute - LC50

OECD 203

Fish

>100 mg/l [96 hours]

Chronic - NOEC

OECD 201

Algae

100 mg/l [72 hours]

triphenyl phosphite

Acute - EC50

OECD 202

Daphnia

0.94 mg/l [48 hours]

Acute - EC50

OECD 203

Fish

0.7 mg/l [96 hours]

Environmental hazards

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Expected to be biodegradable.

Product/ingredient name

N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine

Result

OECD 301B

0% [28 days] - Not readily

triphenyl phosphite

OECD 301D

84% [28 days] - Readily

12.3 Bioaccumulative potential

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

Product/ingredient name	LogP _{ow}	BCF	Potential
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine	>8	-	High
triphenyl phosphite	6.62	-	High

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
triphenyl phosphite	4.49	30865.5

Results of PMT and vPvM assessment

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SECTION 12: Ecological information

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
☒ -[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine triphenyl phosphite	No	No	No	No	No	No	No
	No	No	No	No	No	No	No

Mobility

Spillages may penetrate the soil causing ground water contamination.

Conclusion/Summary☒The product does not meet the criteria to be considered as a PMT or vPvM.**12.5 Results of PBT and vPvB assessment****Regulation (EC) No. 1907/2006 [REACH]**

Product/ingredient name	PBT	P	B	T	vPvB	vP	
☒ -[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine triphenyl phosphite	No	N/A	N/A	No	N/A	N/A	N/A
	N/A	N/A	N/A	Yes	N/A	N/A	N/A

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	
☒ -[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine triphenyl phosphite	No	No	No	No	No	No	No
	No	No	No	No	No	No	No

Conclusion/Summary☒The product does not meet the criteria to be considered as a PBT or vPvB.**Regulation (EC) No. 1272/2008 [CLP]****12.6 Endocrine disrupting properties**

Not available.

Conclusion/Summary [Product]☒This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.**Other ecological information**

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product****Methods of disposal**

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

Hazardous waste

Yes.

European waste catalogue (EWC)

Waste code	Waste designation
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.

ReferencesCommission 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	-	-	-	-

14.6 Special precautions for user Not available.

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

SECTION 15: Regulatory information

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

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)
[Annex XIV - List of substances subject to authorisation](#)
[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)
None of the components are listed.

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#)

Product/ingredient name	%	Designation [Usage]
Castrol Power 1 R 40	≥90	3

Labelling Not applicable.

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 (AIC) 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) All components are listed or exempted.

Explosive precursors Not applicable.

[Ozone depleting substances \(EU 2024/590\)](#)
Not listed.

SECTION 15: Regulatory information**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

15.2 Chemical safety assessment

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

SECTION 16: Other information**Abbreviations and acronyms**

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 CSA = Chemical Safety Assessment
 CSR = Chemical Safety Report
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EINECS = European Inventory of Existing Commercial chemical Substances
 ES = Exposure Scenario
 EUH statement = CLP-specific Hazard statement
 EWC = European Waste Catalogue
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 OECD = Organisation for Economic Co-operation and Development
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
 RRN = REACH Registration Number
 SADT = Self-Accelerating Decomposition Temperature
 SVHC = Substances of Very High Concern
 STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
 STOT-SE = Specific Target Organ Toxicity - Single Exposure
 TWA = Time weighted average
 UN = United Nations
 UVCB = Complex hydrocarbon substance
 VOC = Volatile Organic Compound
 vPvB = Very Persistent and Very Bioaccumulative
 Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4 / RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN 01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 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 classifications [CLP/GHS]**Product name** Castrol Power 1 R 40**Product code** 469399-BE02**Page:** 14/20**Version** 1.01 **Date of issue** 7 November 2025
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SECTION 16: Other information

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Europe

Full text of abbreviated H statements	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
	H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

History

Date of issue/ Date of revision	07/11/2025.
Date of previous issue	09/06/2025.
Prepared by	Product Stewardship

Indicates information that has changed from previously issued version.

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SECTION 16: Other information

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PNECS		
Rat - Dermal - LD50	Not available.	
>2000 mg/kg		
OECD 402		Flammability
Rat - Oral - LD50	triphenyl phosphite	Density and/or Relative density
1590 mg/kg		Density and/or Relative density
OECD 401		Partition coefficient n-octanol/ water (log value)
Rabbit - Dermal - LD50		Kinematic viscosity
>2000 mg/kg		
OECD 402		
Rat - Inhalation - LC50 Dusts and mists		
>6.7 mg/l [1 hours]		
OECD 403		
Conclusion/Summary [Product]		

Skin corrosion/irritation

Result	Product/ingredient name
✓ RhE - Skin - Non-irritant to skin.	N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine
OECD 439	
Rabbit - Skin - Irritant	triphenyl phosphite
Not available.	Conclusion/Summary [Product]

Serious eye damage/eye irritation

Result	Product/ingredient name
✓ RhCE - Eyes - Non-irritating to the eyes.	N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine
✓ OECD 492	
BCOP - Eyes - Non-irritating to the eyes.	
OECD 437	
Rabbit - Eyes - Irritant	triphenyl phosphite
OECD 405	
Conclusion/Summary [Product]	Not available.

Respiratory corrosion/irritation

Not available.	
Conclusion/Summary [Product]	Not available.

Respiratory or skin sensitization

Result	Product/ingredient name
✓ Guinea pig - skin	N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine
OECD 406	
Result: Not sensitising	
Guinea pig - skin	triphenyl phosphite
OECD 429	
Result: Sensitising	
Skin	
Conclusion/Summary [Product]	Not available.
Respiratory	
Conclusion/Summary [Product]	Not available.

Germ cell mutagenicity

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Result	Product/ingredient name
In vitro - Bacteria OECD [Bacterial Reverse Mutation Test] Result: Negative	N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine
In vitro - Mammal - species unspecified OECD [In vitro Mammalian Cell Gene Mutation Test] Result: Negative	
In vitro - Mammal - species unspecified OECD [In vitro Mammalian Chromosomal Aberration Test] Result: Negative	
In vitro - Bacteria OECD 471 Result: Negative	triphenyl phosphite
In vitro - Mammalian-Animal OECD 487 Result: Negative	
In vivo - Mammalian-Animal OECD 474 Result: Negative	

Conclusion/Summary [Product] Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] Not available.

Reproductive toxicity

Result	Product/ingredient name
Rat - Oral OECD 422 Maternal toxicity: Negative Fertility effects: Negative Developmental: Negative	N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine
Rat - Oral OECD 422 Maternal toxicity: Negative Fertility effects: Negative Developmental: Negative	triphenyl phosphite

Conclusion/Summary [Product] Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Result	Product/ingredient name
STOT RE 2, H373	triphenyl phosphite

Aspiration hazard

Not available.

Information on likely routes of exposure Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Result

Acute - ErC50

OECD 201

Algae

>100 mg/l [72 hours]

Acute - EC50

OECD 202

Daphnia

>100 mg/l [48 hours]

Acute - LC50

OECD 203

Fish

>100 mg/l [96 hours]

Chronic - NOEC

OECD 201

Algae

100 mg/l [72 hours]

Acute - EC50

OECD 202

Daphnia

0.94 mg/l [48 hours]

Acute - EC50

OECD 203

Fish

0.7 mg/l [96 hours]

Result

OECD 301B

0% [28 days] - Not readily

OECD 301D

84% [28 days] - Readily

Soil/water partition coefficient

Koc	logKoc	Product/ingredient name
80865.5	4.49	triphenyl phosphite

Results of PMT and vPvM assessment

vM	vP	vPvM	T	M	P	PMT	Product/ingredient name
No	No	No	No	No	No	No	N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine triphenyl phosphite
No	No	No	No	No	No	No	

Spillages may penetrate the soil causing ground water contamination.

The product does not meet the criteria to be considered as a PMT or vPvM.

Regulation (EC) No. 1907/2006 [REACH]

	vP	vPvB	T	B	P	PBT	Product/ingredient name
No	N/A	N/A	No	N/A	N/A	No	N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine triphenyl phosphite
N/A	N/A	N/A	Yes	N/A	N/A	N/A	

Regulation (EC) No. 1272/2008 [CLP]

	vP	vPvB	T	B	P	PBT	Product/ingredient name
No	No	No	No	No	No	No	N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine triphenyl phosphite
No	No	No	No	No	No	No	

The product does not meet the criteria to be considered as a PBT or vPvB.

Not available.

This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

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