

## Section 1. Identification

**GHS product identifier**  Castrol Power 1 Racing 4T 10W-40

**Product code**  464622-MY01

**SDS no.**  464622

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

**Use of the substance/mixture**  Lubricant for four-stroke engines.  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**Manufacturer**

**Supplier** Castrol (Shenzhen) Co Ltd  
120# Manwan Road  
Nanshan District Shenzhen  
Guangdong  
Peoples Republic of China, 518054  
Tel No: +86 755 33351001

**EMERGENCY TELEPHONE NUMBER** Carechem: +86 10 5100 3039 (24 hours)

## Section 2. Hazards identification

**GHS Classification**  SKIN CORROSION/IRRITATION - Category 3  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

**GHS label elements**

**Hazard pictograms**



**Signal word**

Warning

**Hazard statements**

H319 - Causes serious eye irritation.  
 H316 - Causes mild skin irritation.

**Precautionary statements**

**Prevention**

P280 - Wear eye or face protection.  
 P264 - Wash hands thoroughly after handling.

**Response**

P332 + P313 - If skin irritation occurs: Get medical attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical attention.

**Storage**

Not applicable.

**Disposal**

Not applicable.

**Other hazards which do not result in classification**

Defatting to the skin.  
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

**Substance/mixture**  Mixture

Chemically modified base oil Proprietary performance additives.

| Ingredient name  | %        | CAS number |
|--|----------|------------|
| <input checked="" type="checkbox"/> Base oil - unspecified | 50 - 100 | Varies     |
| Zinc alkyl dithiophosphate                                 | 1 - 5    | 68649-42-3 |

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Product name**  Castrol Power 1 Racing 4T 10W-40

**Product code**  464622-MY01

Page: 1/7

Version 2

**Date of issue** 08/10/2012.

**Format** GHS - China

**Language** ENGLISH

Build 3.0.2

(GHS - China)

(ENGLISH)

## Section 3. Composition/information on ingredients

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

## Section 4. First-aid measures

### Description of necessary first aid measures

|                                   |   |
|-----------------------------------|---|
| <b>Inhalation</b>                 | <input checked="" type="checkbox"/> Inhaled, remove to fresh air. Get medical attention if symptoms occur.  |
| <b>Ingestion</b>                  | <input checked="" type="checkbox"/> 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 adverse health effects persist or are severe.                                       |
| <b>Skin contact</b>               | <input checked="" type="checkbox"/> In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. |
| <b>Eye contact</b>                | <input checked="" type="checkbox"/> 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.   |
| <b>Protection of first-aiders</b> | <input checked="" type="checkbox"/> 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.  |

### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

### Indication of immediate medical attention and special treatment needed, if necessary

|                            |   |
|----------------------------|---|
| <b>Specific treatments</b> | <input checked="" type="checkbox"/> No specific treatment.  |
| <b>Notes to physician</b>  | <input checked="" type="checkbox"/> Treatment should in general be symptomatic and directed to relieving any effects. |

## Section 5. Fire-fighting measures

### Extinguishing media

|   |  |
|---|--|
| <b>Suitable</b>                                       | <input checked="" type="checkbox"/> In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.   |
| <b>Not suitable</b>                                   | <input checked="" type="checkbox"/> Do not use water jet.  |
| <b>Specific hazards arising from the chemical</b>     | <input checked="" type="checkbox"/> In a fire or if heated, a pressure increase will occur and the container may burst.  |
| <b>Hazardous thermal decomposition products</b>       | <input checked="" type="checkbox"/> Combustion products may include the following:<br>phosphorus oxides<br>metal oxide/oxides<br>carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)<br>sulphur oxides (SO, SO <sub>2</sub> , etc.) |
| <b>Special precautions for fire-fighters</b>          | <input checked="" type="checkbox"/> Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.                        |
| <b>Special protective equipment for fire-fighters</b> | <input checked="" type="checkbox"/> Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.   |

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                                    |   |
|------------------------------------|---|
| <b>For non-emergency personnel</b> | <input checked="" type="checkbox"/> No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Contact emergency personnel. |
| <b>For emergency responders</b>    | <input checked="" type="checkbox"/> 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".   |
| <b>Environmental precautions</b>   | <input checked="" type="checkbox"/> Avoid dispersal of spilled 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).   |

### Methods and materials for containment and cleaning up

|                    |  |
|--------------------|--|
| <b>Small spill</b> | <input checked="" type="checkbox"/> 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. |
|--------------------|--|

## Section 6. Accidental release measures

### 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 spill product. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Do not ingest. Empty containers retain product residue and can be hazardous. 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.

#### 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.

#### Conditions for safe storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. 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

### Control parameters

| Ingredient name        | Exposure limits  |
|------------------------|--|
| Base oil - unspecified | <b>ACGIH TLV (United States).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Mineral oil, mist |

#### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### Appropriate engineering controls

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.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

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.

#### 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.

### 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.

#### Eye protection

Safety glasses with side shields.

## Section 8. Exposure controls/personal protection

### Skin protection

#### Hand protection

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

#### Skin protection

Use of protective clothing is good industrial practice. 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. 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.

#### 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.

## Section 9. Physical and chemical properties

### Appearance

|  |   |
|--|---|
| Physical state                               | Liquid.   |
| Colour                                       | Brown.  |
| Odour  | Mild  |
| Odour threshold                              | Not available.  |
| pH   | Not available.  |
| Melting point                                | Not available.  |
| Boiling point                                | Not available.  |
| Drop Point                                   | Not available.  |
| Flash point                                  | Closed cup: >180°C (>356°F) [Pensky-Martens.]   |
| Evaporation rate                             | Not available.  |
| Flammability (solid, gas)                    | Not applicable. Based on - Physical state   |
| Lower and upper explosive (flammable) limits | Not available.  |
| Vapour pressure                              | Not available.  |
| Vapour density                               | Not available.  |
| Relative density                             | Not available.  |
| Density                                      | 843.3 kg/m <sup>3</sup> (0.843 g/cm <sup>3</sup> ) at 30°C  |
| Solubility                                   | Insoluble in water.   |
| Partition coefficient: n-octanol/water       | Not available.  |
| Auto-ignition temperature                    | Not available.  |
| Decomposition temperature                    | Not available.  |
| Viscosity                                    | Kinematic: 84.2 mm <sup>2</sup> /s (84.2 cSt) at 40°C<br>Kinematic: 13 mm <sup>2</sup> /s (13 cSt) at 100°C |

## Section 10. Stability and reactivity

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

## Section 11. Toxicological information

### Information on toxicological effects

#### Aspiration hazard

Not available.

#### Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

### Potential acute health effects

#### Eye contact

Causes serious eye irritation.

#### Inhalation

Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

#### Skin contact

Causes mild skin irritation. Defatting to the skin.

#### Ingestion

Irritating to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

#### Eye contact

Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

#### Inhalation

No specific data.

#### Skin contact

Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking

#### Ingestion

No specific data.

### Delayed and immediate effects and also 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.

### Potential chronic health effects

#### 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.

#### Teratogenicity

No known significant effects or critical hazards.

#### Developmental effects

No known significant effects or critical hazards.

#### Fertility effects

No known significant effects or critical hazards.

## Section 12. Ecological information

### Environmental effects

No known significant effects or critical hazards.

### Persistence and degradability

Not available.

### Bioaccumulative potential

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

Product name Castrol Power 1 Racing 4T 10W-40

Product code 464622-MY01

Page: 5/7

Version 2

Date of issue 08/10/2012.

Format GHS - China

Language ENGLISH

Build 3.0.2

(GHS - China)

(ENGLISH)

## Section 12. Ecological information

|                                     |  |
|-------------------------------------|--|
| <b>Mobility</b>                     | <input checked="" type="checkbox"/> Spillages may penetrate the soil causing ground water contamination.   |
| <b>Other adverse effects</b>        | <input checked="" type="checkbox"/> No known significant effects or critical hazards.  |
| <b>Other ecological information</b> | <input checked="" type="checkbox"/> Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired. |

## Section 13. Disposal considerations

|                         |  |
|-------------------------|--|
| <b>Disposal methods</b> | <input checked="" type="checkbox"/> The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |
|-------------------------|--|

## Section 14. Transport information

|                                   | IMDG   | IATA   |
|-----------------------------------|--|--|
| <b>UN number</b>                  | <input checked="" type="checkbox"/> Not regulated. | <input checked="" type="checkbox"/> Not regulated. |
| <b>UN proper shipping name</b>    | <input checked="" type="checkbox"/>                | <input checked="" type="checkbox"/>                |
| <b>Transport hazard class(es)</b> | <input checked="" type="checkbox"/>                | <input checked="" type="checkbox"/>                |
| <b>Packing group</b>              | <input checked="" type="checkbox"/>                | <input checked="" type="checkbox"/>                |
| <b>Environmental hazards</b>      | <input checked="" type="checkbox"/> No.            | <input checked="" type="checkbox"/> No.            |
| <b>Additional information</b>     | <input checked="" type="checkbox"/>                | <input checked="" type="checkbox"/>                |

**Special precautions for user**  Not available.

### China Transportation Information

|   |  |
|---|--|
| <b>UN number</b>  | <input checked="" type="checkbox"/> Not regulated.   |
| <b>Package mark</b>   | Not available.   |
| <b>Packaging</b>  | <input checked="" type="checkbox"/> Not applicable.  |
| <b>Matters needing attention for transportation</b>                             | <input checked="" type="checkbox"/> Ensure that any additional local government transport conditions are met |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not available.   |

## Section 15. Regulatory information

### Regulation according to other foreign laws

|  |   |
|--|---|
| <b>REACH Status</b>                      | <input checked="" type="checkbox"/> For the REACH status of this product please consult your company contact, as identified in Section 1. |
| <b>United States inventory (TSCA 8b)</b> | <input checked="" type="checkbox"/> All components are listed or exempted.  |
| <b>Australia inventory (AICS)</b>        | <input checked="" type="checkbox"/> All components are listed or exempted.  |
| <b>Canada inventory status</b>           | <input checked="" type="checkbox"/> All components are listed or exempted.  |
| <b>China inventory (IECSC)</b>           | <input checked="" type="checkbox"/> All components are listed or exempted.  |
| <b>Japan inventory (ENCS)</b>            | <input checked="" type="checkbox"/> All components are listed or exempted.  |
| <b>Korea inventory (KECI)</b>            | <input checked="" type="checkbox"/> All components are listed or exempted.  |

**Product name**  Castrol Power 1 Racing 4T 10W-40

**Product code**  464622-MY01

Page: 6/7

Version 2

**Date of issue** 08/10/2012.

**Format** GHS - China

**Language** ENGLISH

Build 3.0.2

(GHS - China)

(ENGLISH)

## Section 15. Regulatory information

### [Philippines inventory \(PICCS\)](#)

All components are listed or exempted.

### [Label requirements](#)

Rules of Safety Management Concerning Chemical Dangerous Goods Classification and Labeling of Commonly-used Dangerous Chemical Goods

## Section 16. Other information

### [History](#)

**Date of issue/Date of revision** 08/10/2012.

**Date of previous issue** 01/10/2010.

**Prepared by** Product Stewardship

Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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

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

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