

## 1. Identification of the substance/preparation and company/undertaking

<b>Product name</b>	<b>Castrol Bike Polish</b>
<b>SDS no.</b>	452572
<b>Use of the substance/preparation</b>	Bike care products. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
<b>Supplier</b>	Castrol (UK) Ltd Wakefield House Pipers Way Swindon Wiltshire SN3 1RE
<b>EMERGENCY TELEPHONE NUMBER</b>	Carechem: +44 (0) 208 762 8322 (24 hours)
<b>E-mail address</b>	MSDSadvice@bp.com

## 2. Hazards identification

This preparation is classified as dangerous according to Directive 1999/45/EC as amended and adapted.

<b>Physical/chemical hazards</b>	Extremely flammable.
<b>Additional hazards</b>	Solvent "sniffing" (abuse) or intentional overexposure to vapours can produce serious central nervous system effects, including unconsciousness, and possibly death.

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

## 3. Composition/information on ingredients

Propellant. Proprietary performance additives.

<b>Chemical name</b>	<b>CAS no.</b>	<b>%</b>	<b>EINECS / ELINCS.</b>	<b>Classification</b>
n-Paraffins	64771-72-8	10 - 20	265-233-4	Xn; R65 R66 [1]
Cyclopentane	287-92-3	5 - 10	206-016-6	F; R11 R52/53 [1]
non-ionic surfactants	Proprietary	1 - 5		Xn; R22 Xi; R41 [1]
Carbon dioxide	124-38-9	1 - 5	204-696-9	Not classified. [2]
Silicon mixture	Proprietary	1 - 5		F; R11 Xi; R36/38 R67 N; R51/53 [1]

See section 16 for the full text of the R-phrases declared above

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

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

## 4. First-aid measures

<b>Eye contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
<b>Skin contact</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
<b>Ingestion</b>	Poisoning very unlikely unless deliberate ingestion of large quantities has occurred. If potentially dangerous quantities of this material have been swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	Treatment should in general be symptomatic and directed to relieving any effects.

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## 5. Fire-fighting measures

### Extinguishing media

#### Suitable

In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

#### Not suitable

Do not use water jet.

### Hazardous decomposition products

Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### Unusual fire/explosion hazards

Aerosols may burst if exposed to temperatures above 122°F/50°C.  
Extremely explosive in the presence of heat

### Special fire-fighting procedures

Use water spray to keep fire-exposed containers cool.

### Protection of fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

### Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

### 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).

### 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 (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

### 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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

### Handling

Wash thoroughly after handling. Avoid contact with skin and eyes.  
Do not spray on a naked flame or any incandescent material. Do not smoke or use matches or lighters during use and until all vapours (odours) have gone.  
Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.

### Storage

Store and use away from heat, sparks, open flame or any other ignition source.  
Store in a cool, well-ventilated area away from incompatible materials and ignition sources.  
Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use.

### Not suitable

Prolonged exposure to elevated temperature

## 8. Exposure controls/personal protection

### Ingredient name

n-Paraffins

### Occupational exposure limits

#### EH40 (United Kingdom (UK)).

TWA: 1200 mg/m<sup>3</sup> 8 hour(s).

Carbon dioxide

#### EH40/2005 WELs (United Kingdom (UK)).

STEL: 27400 mg/m<sup>3</sup> 15 minute(s). Issued/Revised: 1/1997

STEL: 15000 ppm 15 minute(s). Issued/Revised: 1/1997

TWA: 9150 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 1/1997

TWA: 5000 ppm 8 hour(s). Issued/Revised: 1/1997

### ACGIH TLVs

Cyclopentane

#### ACGIH TLV (United States).

TWA: 1720 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 9/1994

TWA: 600 ppm 8 hour(s). Issued/Revised: 9/1994

Carbon dioxide

#### ACGIH TLV (United States).

STEL: 54000 mg/m<sup>3</sup> 15 minute(s). Issued/Revised: 9/1994

STEL: 30000 ppm 15 minute(s). Issued/Revised: 9/1994

TWA: 9000 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 9/1994

TWA: 5000 ppm 8 hour(s). Issued/Revised: 9/1994

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier.

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.

### Exposure controls

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## Occupational exposure controls

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

All chemicals should be assessed for their risks to health and appropriate control measures put in place to prevent or adequately control exposure. A hierarchy of control measures exists (e.g. elimination, substitution, general ventilation, containment, systems of work, changing the process or activity) that must be considered before use of personal protective equipment. 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.

## 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.

## Personal protective equipment

### Respiratory protection

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn.

Air-filtering respirators, also called air-purifying respirators, will not be adequate under conditions of oxygen deficiency (i.e. low oxygen concentration), and would not be considered suitable where airborne concentrations of chemicals with a significant hazard are present. In these cases air-supplied breathing apparatus will be required.

Provided an air-filtering/air-purifying respirator is suitable, a multiple type of gas filter for organic gases and vapours (boiling point  $\leq 65^{\circ}\text{C}$  and  $>65^{\circ}\text{C}$ ) can be used for vapour. Use filter types A with AX or comparable standard.

Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used for mist or fume. Use filter type P or comparable standard.

### Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves.

Recommended: nitrile gloves

### Eye protection

Safety glasses with side shields.

### Skin and body

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.

## 9 . Physical and chemical properties

### General information

#### Appearance

Physical state Aerosol.

Colour Beige.

Odour Characteristic.

### Important health, safety and environmental information

Flash point Open cup:  $<0^{\circ}\text{C}$  ( $<32^{\circ}\text{F}$ )

Boiling point / range  $-11^{\circ}\text{C}$  ( $12.2^{\circ}\text{F}$ )

Density  $974\text{ kg/m}^3$  ( $0.974\text{ g/cm}^3$ ) at  $20^{\circ}\text{C}$

Solubility Miscible in water.

Partition coefficient (LogKow)  $>3$

## 10 . Stability and reactivity

Stability The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid Extremely flammable. Keep away from sources of ignition.

Materials to avoid Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products Combustion products may include the following:  
carbon oxides

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## 11 . Toxicological information

### Acute toxicity

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

Exposure to high concentrations can cause dizziness, lightheadedness, headache, nausea and blurred vision. Higher levels may cause unconsciousness.

May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

### Chronic toxicity

#### Chronic effects

No known significant effects or critical hazards.

### Effects and symptoms

#### Eyes

No significant health hazards identified.

#### Skin

No significant health hazards identified.

#### Inhalation

No significant health hazards identified.

#### Ingestion

No significant health hazards identified.

## 12 . Ecological information

### Persistence/degradability

Inherently biodegradable

### Mobility

Spillages are unlikely to penetrate the soil.

### Bioaccumulative potential

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

### Environmental hazards

Not classified as dangerous.

### Other ecological information

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

## 13 . Disposal considerations

### Disposal considerations / Waste information

Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use.  
Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.





### Unused product

#### European waste catalogue (EWC)

15 01 10\* packaging containing residues of or contaminated by dangerous substances  
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.

## 14 . Transport information

### International transport regulations

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
ADR/RID Classification	UN 1950	AEROSOLS, flammable	2	-		<b>Hazard identification number</b> 23
ADNR Classification	UN 1950	AEROSOLS, flammable	2	-		-
IMDG Classification	UN 1950	AEROSOLS	2.1	-		<b>Emergency schedules (EmS)</b> F-D,S-U
ICAO/IATA Classification	UN 1950	AEROSOLS, flammable	2.1	-		-

PG\* : Packing group

UK Emergency Action Code: 2YE

ADR/RID Classification code: 5F

ADNR Classification code: 5F

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## 15 . Regulatory information

### Label requirements

#### Hazard symbol or symbols



#### Indication of danger

Extremely flammable

#### Risk phrases

R12- Extremely flammable.

#### Safety phrases

S2- Keep out of the reach of children.

S46- If swallowed, seek medical advice immediately and show this container or label.

#### Additional warning phrases

Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

### Other regulations

#### Europe inventory

All components are listed or exempted.

#### United States inventory (TSCA 8b)

All components are listed or exempted.

#### Australia inventory (AICS)

Not determined.

#### Canada inventory

Not determined.

#### China inventory (IECSC)

Not determined.

#### Japan inventory (ENCS)

Not determined.

#### Korea inventory (KECI)

Not determined.

#### Philippines inventory (PICCS)

Not determined.

## 16 . Other information

### Full text of R-phrases referred to in sections 2 and 3

R12- Extremely flammable.

R11- Highly flammable.

R22- Harmful if swallowed.

R65- Harmful: may cause lung damage if swallowed.

R41- Risk of serious damage to eyes.

R36/38- Irritating to eyes and skin.

R66- Repeated exposure may cause skin dryness or cracking.

R67- Vapours may cause drowsiness and dizziness.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### History

#### Date of issue/ Date of revision

12/05/2009.

#### Date of previous issue

No previous validation.

#### Prepared by

Product Stewardship Group

#### Notice to reader

Indicates information that has changed from previously issued version.

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 us.

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.

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