

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

Product name	Castrol Metal Parts Cleaner Aerosol
SDS #	453805
Product use	Cleaner. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Supplier	Castrol (UK) Ltd Wakefield House Pipers Way Swindon Wiltshire SN3 1RE
EMERGENCY TELEPHONE NUMBER	+44 (0) 1793 512712

2. Composition/information on ingredients

Propellant. Propan-2-ol. Low boiling point hydrogen treated naphtha. Carbon dioxide.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Propan-2-ol	67-63-0	20 - 50	200-661-7	F; R11 Xi; R36 R67
Low boiling point hydrogen treated naphtha	64742-49-0	20 - 50	265-151-9	F; R11 Xn; R65 Xi; R38 R67
Pentane	109-66-0	20 - 50	203-692-4	N; R51/53 F+; R12 Xn; R65 R66, 67
Carbon dioxide	124-38-9	5 - 10	204-696-9	N; R51/53 Not classified.

See section 16 for the full text of the R Phrases declared above

Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

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

Physical/chemical hazards	Highly flammable.
Human health hazards	Irritating to eyes and skin. Vapours may cause drowsiness and dizziness. Solvent "sniffing" (abuse) or intentional overexposure to vapours can produce serious central nervous system effects, including unconsciousness, and possibly death.
Environmental hazards	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Effects and symptoms	
Eyes	Causes eye irritation.
Skin	Causes skin irritation.
Inhalation	Solvent "sniffing" (abuse) or intentional overexposure to vapours can produce serious central nervous system effects, including unconsciousness, and possibly death.
Ingestion	No significant health hazards identified.

4 . First aid measures

Eye Contact	In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact	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.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion	Poisoning very unlikely unless deliberate ingestion of large quantities has occurred. If large quantities of this material are 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.
Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.

5 . Fire-fighting measures

Extinguishing Media

Suitable	Use foam or all-purpose dry chemicals to extinguish. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Not Suitable	Do not use water jet.
Hazardous decomposition products	These products are carbon oxides (CO, CO ₂).
Unusual fire/explosion Hazards	Extremely explosive in presence of heat Aerosols may burst if exposed to temperatures above 122°F/50°C.
Special Fire-Fighting Procedures	Use water spray to keep fire-exposed containers cool.
Protection of fire-fighters	Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.
Fire hazards in presence of various substances	Highly flammable liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

6 . Accidental release measures

Personal Precautions	Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures").
Environmental precautions and clean-up methods	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
Personal protection in case of a large spill	Splash goggles. Full suit. Boots. Gloves.

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) are 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.

8 . Exposure controls/personal protection

Ingredient name

Propan-2-ol

Occupational exposure limits

EH40-OES (United Kingdom (UK), 2002).

STEL: 1250 mg/m³ 15 minute(s).

STEL: 500 ppm 15 minute(s).

TWA: 999 mg/m³ 8 hour(s).

TWA: 400 ppm 8 hour(s).

Low boiling point hydrogen treated naphtha

EH40-OES (United Kingdom (UK)).

TWA: 1000 mg/m³ 8 hour(s).

Pentane

ACGIH TLV (United States, 9/2004).

TWA: 600 ppm 8 hour(s).

Carbon dioxide

EU OEL (Europe, 7/1991).

TWA: 9000 mg/m³ 8 hour(s).

TWA: 5000 ppm 8 hour(s).

Where there are no regulatory exposure limits, for information and guidance, the ACGIH values are included.

For further information on these please consult your supplier.

Control Measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures

Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Personal protective equipment

Respiratory system

Use with adequate ventilation. If operating conditions cause high vapour concentrations or TLV is exceeded, use supplied-air respirator.

Skin and body

None required; however, use of protective clothing is good industrial practice.

Hands

None required; however, use of gloves is good industrial practice.

Eyes

Safety glasses with side shields.

9 . Physical and chemical properties

Auto-ignition temperature

200 °C

Flash point

<0 °C (Open cup)

Explosion limits

Lower: 0.8 %

Upper: 12 %

Colour

Colourless.

Odour

Characteristic.

Physical state

Aerosol.

Density

758 kg/m³ (0.758 g/cm³) at 20°C

Solubility

Insoluble in water.

10 . Stability and reactivity

Conditions to Avoid

Extremely flammable. Keep away from sources of ignition.

Incompatibility with various substances

Reactive with oxidising agents, acids and alkalis.

Hazardous polymerization

Will not occur.

11 . Toxicological information

Acute toxicity

Likely to cause eye irritation.

Likely to cause skin irritation.

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.

Product Name Castrol Metal Parts Cleaner Aerosol

Product code 453805-DE10

Page: 3/5

Version 1

Date of issue 20 December 2004

Format United Kingdom
(UK)

Language ENGLISH

Build 7.0.5

(United Kingdom)

(ENGLISH)

Chronic toxicity
Carcinogenic effects

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).

12 . Ecological information





Persistence/degradability	Inherently biodegradable.
Mobility	Spillages may penetrate the soil causing ground water contamination.
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.
Environmental hazards	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13 . Disposal considerations

Disposal Consideration / 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.
Hazardous waste	The classification of the product may meet the criteria for a hazardous waste.

14 . Transport information

International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Classification	1950	AEROSOLS, flammable	2.1			Hazard identification number 23 UK Emergency Action Code: Not available.
ADNR Classification	1950	AEROSOLS, flammable	2.1			-
IMDG Classification	1950	AEROSOLS, flammable	2.1			Emergency schedules (EmS) 2-13
IATA Classification	1950	AEROSOLS, flammable	2.1			-

15 . Regulatory information

Label Requirements

Hazard symbol(s)



Highly flammable



Irritant



Dangerous for the environment.

Indication of Danger

Risk Phrases

R11- Highly flammable.
R36/38- Irritating to eyes and skin.
R67- Vapours may cause drowsiness and dizziness.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Product Name Castrol Metal Parts Cleaner Aerosol

Product code 453805-DE10

Page: 4/5

Version 1

Date of issue 20 December 2004

Format United Kingdom
(UK)

Language ENGLISH

Build 7.0.5

(United Kingdom)

(ENGLISH)

Safety Phrases	S2- Keep out of the reach of children. S23- Do not breathe fumes/vapour/spray S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S51- Use only in well-ventilated areas. S56- Dispose of this material and its container at hazardous or special waste collection point. S61- Avoid release to the environment. Refer to special instructions/Safety data sheet.
EU Regulations	Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.
Other regulations	
Inventories	AUSTRALIAN INVENTORY (AICS): Not determined. CANADA INVENTORY (DSL): Not determined. CHINA INVENTORY (IECS): Not determined. EC INVENTORY (EINECS/ELINCS): In compliance. JAPAN INVENTORY (ENCS): Not determined. KOREA INVENTORY (ECL): Not determined. PHILIPPINE INVENTORY (PICCS): Not determined. US INVENTORY (TSCA): Not determined.
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. - Do not smoke.
Tactile warning of danger	Yes, applicable.

16 . Other information

Full text of R phrases referred to in sections 2 and 3	R12- Extremely flammable. R11- Highly flammable. R65- Harmful: may cause lung damage if swallowed. R36- Irritating to eyes. R36/38- Irritating to eyes and skin. R38- Irritating to 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.
---------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

History

Date of issue	20/12/2004.
Date of previous issue	No Previous Validation.
Prepared by	Product Stewardship Group
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 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.

Product Name Castrol Metal Parts Cleaner Aerosol	Product code 453805-DE10	Page: 5/5
Version 1	Date of issue 20 December 2004	Format United Kingdom (UK) (United Kingdom)
Build 7.0.5		Language ENGLISH (ENGLISH)