

# Material Safety Data Sheet

Infosafe No. CAS0N Issue Date: April 2004 ISSUED by CASTROL  
Product Name: **Castrol Optimol SHF Spray**

**Not classified as hazardous according to criteria of NOHSC**

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

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### Product Name

Castrol Optimol SHF Spray

### Product Use

Lubricant (Aerosol).

### Company Name

Castrol Australia Pty. Limited (ABN 87 008 459 407)

### Address

132 McCredie Road, Guildford,  
NSW, 2161 Australia

### Emergency Tel.

1800 638 556

### Telephone Number/Fax

Tel: (02) 9795 4800 Fax: (02) 9795 4910

### Other Information

Castrol Technical Help Line 1300 557 998 (Local call)

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Ingredients</b>	<b><u>Name</u></b>	<b><u>CAS</u></b>	<b><u>Proportion</u></b>
	Butane	106-97-8	20-50 %
	Naphtha (petroleum), hydrodesulfurized light, dearomatized	92045-53-9	10-20 %
	Propane	74-98-6	5-10 %
	Naphtha (Petroleum), Hydrotreated Light	64742-49-0	5-10 %
	Ethyl acetate	141-78-6	1-5 %
	Other ingredients determined not to be hazardous	Not required	Balance

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Product Name : Castrol Optimol SHF Spray

### 3. HAZARDS IDENTIFICATION

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Not classified as hazardous according to NOHSC criteria.  
Classified as a dangerous good according to the ADG Code.

Risk phrases:

R12 Extremely Flammable.

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

R66 Repeated exposure may cause skin dryness and cracking.

R67 Vapours may cause drowsiness and dizziness.

Safety phrases:

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe gas/fumes/vapour/spray.

S24/25 Avoid contact with skin and eyes.

S33 Take precautionary measures against static discharges.

S51 Use only in well ventilated areas.

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

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### 4. FIRST AID MEASURES

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#### Inhalation

Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If irritation develops and persists seek medical attention.

#### Ingestion

DO NOT INDUCE VOMITING. Wash out mouth with water. If symptoms develop seek medical attention.

#### Skin

Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If irritation develops and persists seek medical attention.

#### Eye

If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.

#### First Aid Facilities

Eye wash fountains and normal wash room facilities.

#### Advice to Doctor

Treat symptomatically.

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### 5. FIRE FIGHTING MEASURES

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**Extinguishing Media**

Carbon dioxide, dry chemical, or foam. Cool aerosol cans with water spray. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Specific Hazards**

Flammable Gas. Keep away from all sources of ignition, heat and naked flames. Cans may explode in fire conditions. Ensure adequate ventilation to prevent formation of an explosive mixture with vapour from aerosol and air. Dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

**Hazardous****Combustion Products**

Oxides of carbon (CO, CO<sub>2</sub>).

**Precautions in connection with Fire**

Wear Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing to minimise skin exposure.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Liquid content:**

Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert absorbent material such as vermiculite, sand or dirt onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

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**7. HANDLING AND STORAGE**

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**Corrosiveness**

Not corrosive to aluminium.

**Handling**

Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material, maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or going to the toilet. Build-up of mist in the working atmosphere must be prevented. Ensure ventilation is adequate. Prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Prevent accumulation of static electricity and earth all equipment.

Contents are under pressure, DO NOT puncture. Do NOT spray into or near open flame. Do NOT spray on extremely hot surfaces.

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**Storage**

The product should be stored in a cool, dry, well ventilated area, away from sources of ignition and oxidising agents. Do NOT puncture, pressurise, cut or heat aerosol containers. Content is under pressure and can explode violently.

**8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

<b>Exposure Limits</b>	<b>Name</b>	<b>mg/m<sup>3</sup> (STEL)</b>	<b>ppm (STEL)</b>	<b>mg/m<sup>3</sup> (TWA)</b>	<b>ppm (TWA)</b>	<b>TWA Footnote</b>
	Butane			1900	800	NOHSC
	Ethyl acetate			720	200	

**Other Exposure Information**

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, Exposure Standards for the constituents, butane and ethyl acetate are listed above and oil mist is listed below.

SUBSTANCE	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Oil mist, mineral	-	5	-	10

Note: Propane is an asphyxiant gas, which when present in an atmosphere in high concentration, leads to reduction of oxygen concentration by displacement or dilution. It is not appropriate to recommend an exposure standard for an asphyxiant, rather it should be required that a sufficient oxygen concentration be maintained.

**Respiratory Protection**

Use only with adequate ventilation. Avoid breathing of vapours, mists or spray. Industrial applications: Where ventilation is inadequate and vapours or mists are generated the use of an approved respirator with organic vapour/particulate filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715- Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716- Respiratory Protective Devices.

**Eye Protection**

Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to

risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Body Protection**

Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

**Eng. Controls**

Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, an explosion proof ventilation system is required. Refer to AS 2430-Explosive gas atmospheres for further information concerning ventilation requirements.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

Aerosol.

**Odour**

Mild odour.

**Melting Point**

Not applicable

**Boiling Point**

35°C

**Solubility in Water**

Insoluble

**Specific Gravity**

(H<sub>2</sub>O=1)

1.0 @ 20°C

**pH Value**

Not applicable

**Vapour Pressure**

2,025 mmHg

**Vapour Density**

(Air=1)

Not available

**Volatile Component**

25%

**Flash Point**

-60°C (CLOSED CUP)

**Flammability**

FLAMMABLE GAS: Contains flammable propellants. Do NOT spray into or near open flame. Do NOT spray on extremely hot surfaces. Remove all sources of ignition, heat and naked flames. May emit toxic fumes under fire conditions. Vapours

emitted can form flammable mixtures with air.

**Flammable Limits LEL**

0.5%

**Flammable Limits UEL**

10%

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**10. STABILITY AND REACTIVITY**

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**Stability**

Stable under normal conditions.

**Hazardous****Polymerization**

Will not occur.

**Materials to Avoid**

Strong oxidising agents.

**Hazardous****Decomposition****Products**

Oxides of carbon.

**Conditions to Avoid**

Avoid all possible sources of ignition (spark or flame). High temperature.

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**11. TOXICOLOGICAL INFORMATION**

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**Toxicology****Information**

No toxicity data is available for this material. No component of this product at levels greater than 0.1% is identified as a carcinogen by the International Agency for Research on Cancer (IARC).

**Inhalation**

May cause irritation to the mucous membrane and upper airways. Symptoms may include intoxication, loss of control, stupor and breathing difficulties.

**Ingestion**

Not a likely source of exposure. If liquid content is ingested, may cause irritation to the mouth, oesophagus and stomach. Symptoms may include nausea, vomiting and diarrhoea. May also cause aspiration leading to lung damage.

**Skin**

May cause redness, itching, irritation and drying or defatting of the skin that may lead to dermatitis.

**Eye**

Eye contact and high concentrations of solvent vapour may cause eye irritation, including redness, lachrymation, stinging and swelling.

**Chronic Effects**

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Prolonged or repeated contact with this material may result in skin irritation leading to dermatitis.

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## 12. ECOLOGICAL INFORMATION

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### Environ. Protection

Prevent this material from entering the environment.

### Mobility

Data not available

### Persistence / Degradability

Data not available

### Bioaccumulation

Data not available

### Ecotoxicity

Data not available

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## 13. DISPOSAL CONSIDERATIONS

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Dispose of waste according to federal, E.P.A. and state regulations. Assure conformity with all applicable regulations. Do not puncture or incinerate can, even when empty.

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## 14. TRANSPORT INFORMATION

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This material is classified as a Class 2.1 (Flammable Gas) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road or Rail. Dangerous goods of Class 2.1 (Flammable Gas) are incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 3, Flammable Liquid, if both the Class 2.1 and Class 3 dangerous goods are in bulk
- Class 4.1, Flammable Solid
- Class 4.2, Spontaneously Combustible Substance
- Class 4.3, Dangerous When Wet Substance
- Class 5.1, Oxidising Agent
- Class 5.2, Organic Peroxide
- Class 7, Radioactive Substance

### U.N. Number

1950

### Proper Shipping Name

AEROSOLS

### DG Class

Product Name : Castrol Optimol SHF Spray

2.1

**Packaging Method**

5.9.2

**EPG Number**

2D1

**IERG Number**

49

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**15. REGULATORY INFORMATION**

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**Risk Phrase**

R12 Extremely Flammable.

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

R66 Repeated exposure may cause skin dryness and cracking.

R67 Vapours may cause drowsiness and dizziness

**Safety Phrase**

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe gas/fumes/vapour/spray

S24/25 Avoid contact with skin and eyes.

S33 Take precautionary measures against static discharges.

S51 Use only in well ventilated areas.

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

**Poisons Schedule**

Not Scheduled

**Hazard Category**

Extremely Flammable, Dangerous for the environment

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**16. OTHER INFORMATION**

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**Contact Person/Point**

For information concerning details on this Safety Data Sheet contact your local Technical Services Manager on the following numbers:-

Sydney: (02) 9795 4800

Melbourne: (03) 9268 4200

Brisbane: (07) 3850 9300

Adelaide: (08) 8347 6200

Perth: (08) 9268 9288

Castrol Technical Help Line 1300 557 998 (Local call)

**IMPORTANT DISCLAIMER**

All reasonable care has been taken to ensure that the information and advice contained herein are accurate at the time of printing. However, Castrol accepts

Product Name : Castrol Optimol SHF Spray



no tortious or contractual liability for any loss or damages suffered as a consequence of reliance on the information and advice contained herein.

24 HOUR EMERGENCY CONTACT

1 800 638 556

24 HOUR EMERGENCY CONTACT (New Zealand Only)

0800 154 666

**SDS History**

MSDS Creation: April 2004

**...End Of MSDS...**