

# Material Safety Data Sheet

Infosafe No.            ACP9J            Issue Date: April 2004  
Product Name:        **ENDURON S**

ISSUED by CASTROL

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

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

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**Product Name**

ENDURON S

**Product Code**

116924

**Product Use**

Diesel Engine Oil.

**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>
	Ingredients determined not to be hazardous	Not required	100 %

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## 3. HAZARDS IDENTIFICATION

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

**Risk phrases:**

Not applicable

Product Name : ENDURON S

Safety phrases:  
Not applicable

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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 qualified person give oxygen through a facemask if breathing is difficult. If irritation develops and persists seek medical attention.

##### Ingestion

DO NOT induce vomiting. Immediately wash out mouth with water. 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) occur, wash with running water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.

##### First Aid Facilities

Eye wash and normal washroom facilities.

##### Advice to Doctor

Treat symptomatically.

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#### 5. FIRE FIGHTING MEASURES

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##### Extinguishing Media

Foam, dry chemical and CO<sub>2</sub>. Note: Water or foam may cause frothing.

##### Specific Hazards

Combustible liquid, C2. Avoid sources of ignition, heat and naked flames.

##### Hazardous

##### Combustion Products

Combustion products include oxides of carbon and other noxious smoke. Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

##### Precautions in

##### connection with Fire

Use water to cool fire-exposed containers. Water spray may be used to flush spills away from exposures. Prevent runoff from fire control or dilution from entering waterways, sewers or drinking water supply.

Product Name : ENDURON S

For fires in enclosed areas, firefighters must use self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

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Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority, state and local regulations. 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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### Handling

Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. DO NOT store or use in confined spaces. Do not enter these areas without respiratory protection or until the atmosphere has been checked. Keep tank covered and containers sealed when not in use. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of vapour and mists. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. When dealing with large quantities, repeated or prolonged exposure without protection should be prevented in order to lessen the possibility of disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.

### Storage

Classified as a class C2 combustible liquid for storage and handling purposes. Store in a cool, dry, well-ventilated area, out of direct sunlight. Avoid sparks, flames, and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidising materials). Store in suitable, labelled containers. Keep containers tightly closed when not in use and when empty.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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### Exposure Limits

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

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

Product Name : ENDURON S

Time-weighted average (TWA) is defined as the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

Short Term Exposure Limit (STEL) a 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.

Exposure Standard is defined as the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to the majority of workers.

#### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent 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, a flameproof exhaust ventilation system is required.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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Product Name : ENDURON S

**Appearance**

Amber coloured oily liquid.

**Odour**

Mild

**Melting Point**

Not available

Not available

**Boiling Point**

Not available

Not available

**Solubility in Water**

Negligible

**Specific Gravity**

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

0.8743

**pH Value**

Not available

**Vapour Pressure**

Not available

Not available

**Vapour Density**

(Air=1)

Not available

**Flash Point**

150°C (Closed cup)

**Flammability**

Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purposes of storage and handling, in accordance with the requirements of AS1940. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition.

**Flammable Limits LEL**

Not available

**Flammable Limits UEL**

Not available

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**10. STABILITY AND REACTIVITY**

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**Stability**

Stable in normal conditions.

**Hazardous****Polymerization**

Will not occur.

Product Name : ENDURON S

**Materials to Avoid**

Strong oxidisers.

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**11. TOXICOLOGICAL INFORMATION**

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**Toxicology  
Information**

No toxicity data is available for this product.

**Inhalation**

Vapour may cause slight irritation to the respiratory tract and mucous membrane especially when heated.

**Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Skin**

May cause mild irritation resulting in defatting of the skin with possibility of dermatitis.

**Eye**

May cause mild eye irritation resulting in redness and itchiness.

**Chronic Effects**

Prolonged or repeated contact with this product may lead to dermatitis.

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**12. ECOLOGICAL INFORMATION**

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**Environ. Protection**

Prevent this material entering waterways, drains and sewers.

**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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New or used mineral oils, or solvent must not be allowed to enter the ground, ground water, water courses, sewers or drainage systems. Advice may be sought from the Environmental Protection Authority or from the local waste disposal authority. Ensure conformity with all State and Federal regulations.

Product Name : ENDURON S

**Waste Disposal**

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**14. TRANSPORT INFORMATION**

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Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**U.N. Number**

None Allocated

**Proper Shipping Name**

None Allocated

**DG Class**

None Allocated

**Hazchem Code**

None Allocated

**Packing Group**

None Allocated

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**15. REGULATORY INFORMATION**

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**Poisons Schedule**

Not Scheduled

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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)

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**24 HOUR EMERGENCY CONTACT**

1 800 638 556

Product Name : ENDURON S

24 HOUR EMERGENCY CONTACT (New Zealand Only)

0800 154 666

**SDS History**

MSDS Review: April 2004

Supersedes: November 2001

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

Product Name : ENDURON S