

# Material Safety Data Sheet

Infosafe No. 5CA15 Issue Date: February 2004 ISSUED by CASTROL  
Product Name: MOLUB ALLOY 777-1

**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

MOLUB ALLOY 777-1

### Product Use

Lubricant.

### 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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### Information on Composition

Contains highly refined mineral oil and additives.

Ingredients	Name	CAS	Proportion
	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:

Product Name : MOLUB ALLOY 777-1

Not applicable

Safety phrases:

Not applicable

Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure, constitutes a major medical emergency. See 'Advice to Doctor' under First-Aid Measures, Section 4 of this 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 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 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, seek medical attention. Medical advice must be obtained urgently if product under high pressure has been injected through the skin.

##### **Eye**

If contact with the eye(s) occur, wash with copious amounts of water, holding eyelids(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation develops and persists, seek medical attention.

##### **First Aid Facilities**

Eye wash and normal washroom facilities.

##### **Advice to Doctor**

Treatment should in general be symptomatic and directed to relieving any effects.

Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis.

Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

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#### **5. FIRE FIGHTING MEASURES**

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**Extinguishing Media**

Carbon dioxide, water fog, foam or dry chemical.  
Do NOT use water jets. Cool fire exposed containers with water spray.

**Specific Hazards**

Combustible substance. Fire-exposed container may rupture/explode.

**Hazardous****Combustion Products**

Oxides of carbon and sulphur.

**Precautions in connection with Fire**

Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing should be worn to minimise exposure.

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**6. ACCIDENTAL RELEASE MEASURES**

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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, non combustible, absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. 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**

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 ie. washing hands prior to eating, drinking or going to the toilet. Build-up of mists in the working atmosphere must be prevented.

Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue may ignite with explosive violence if heated sufficiently. Do not pressurise or expose to open flame or heat. Keep container closed and bung in place.

**Storage**

Combustible substance 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). Reference should be made to Australian Standard AS1940- The storage and handling of flammable and combustible liquids.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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### Exposure Limits

No value assigned for this specific material by the Australian National Occupational Health and Safety Commission (NOHSC). However, the recommended Exposure Standards for oil mist are listed below. As with all chemicals, exposure should be kept to the lowest possible levels.

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

### Respiratory Protection

Avoid breathing of vapours or mists. 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; however 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 or face shield as appropriate. Final choice of appropriate eye/face protection will vary according to individual circumstances including methods of handling or engineering controls as determined by appropriate risk assessments. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337- Eye Protectors for Industrial Applications.

### Hand Protection

Impervious gloves recommended. Final choice of appropriate glove type will vary according to individual circumstances, including methods of handling or engineering controls as determined by appropriate risk assessments. Refer to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.

### Body Protection

Wear appropriate protective clothing including chemical resistant apron where clothing is likely to be contaminated.

### Eng. Controls

Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

### Other Information

No biological limit allocated.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

Product Name : MOLUB ALLOY 777-1

Grey/black paste.

**Odour**

Mild odour.

**Melting Point**

>180°C

**Boiling Point**

Not available.

**Solubility in Water**

Very slightly soluble in cold water.

**Specific Gravity**

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

<1 @ 20°C

**Vapour Pressure**

<0.1 kPa

**Flash Point**

>220°C Closed cup

**Flammability**

Combustible substance. Remove all sources of heat and 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 under normal conditions of storage and handling.

**Hazardous****Polymerization**

Will not occur.

**Materials to Avoid**

Oxidising agents.

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

Oxides of carbon and sulphur. Some metallic oxides.

**Hazardous Reaction**

May react with oxidising agents.

**Conditions to Avoid**

Heat, direct sunlight, open flames or other sources of ignition.

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## 11. TOXICOLOGICAL INFORMATION

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### Toxicology Information

No component of this product listed at levels greater than 0.1% as a carcinogen by ACGIH, IARC or EC.

### Inhalation

May cause irritation to the mucous membrane and upper airways, where material is heated and is used in poorly ventilated areas. Symptoms may include headache, dizziness and nausea.

### Ingestion

May cause irritation of the gastrointestinal system. Symptoms may include nausea, vomiting and diarrhoea.

### Skin

May cause irritation in contact with the skin, which may result in redness and itchiness, possibly leading to dermatitis.

### Eye

May cause eye irritation, resulting in redness, stinging and lachrymation.

### Chronic Effects

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

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## 12. ECOLOGICAL INFORMATION

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### Environ. Protection

Prevent this material from entering the environment.

### Mobility

Non volatile paste. Very slightly soluble in water.

### Persistence / Degradability

Inherently biodegradable.

### Bioaccumulation

No data available for this specific product.

### Ecotoxicity

No data available for this specific product.

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## 13. DISPOSAL CONSIDERATIONS

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Dispose of waste according to federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

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## 14. TRANSPORT INFORMATION

Product Name : MOLUB ALLOY 777-1

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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

24 HOUR EMERGENCY CONTACT (New Zealand Only)

0800 154 666

**SDS History**

MSDS Review: February 2004.

MSDS Supersedes: February 1999.

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