

Material Safety Data Sheet

Infosafe No. 5CA0R Issue Date: May 2003 ISSUED by CASTROL
Product Name: MOLUB-ALLOY 1000

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name

MOLUB-ALLOY 1000

Product Code

MA1000

Product Use

Lubrication.

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 Names

Name

Mancode

MA 1000

Other Information

Castrol Technical Help Line 1300 557 998 (Local call)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition

Contains thickened synthetic hydrocarbons with additives.

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Decanoic acid, mixed esters with dipentaerythritol, heptanoic acid, isononanoic acid and actanoic acid.	118685-22-6	15-20 %

Product Name : MOLUB-ALLOY 1000

Decanoic acid, mixed esters with heptanoic acid, isononanoic acid, octanoic acid and pentaerythritol.	118685-28-8	1-10 %
Other ingredients determined not to be hazardous	Not required	Balance

Other Information

A component of this product is being introduced under a Low Volume Chemical Permit granted under section 21U(2) of the Industrial Chemicals (Notification and Assessment) Act 1989.

3. HAZARDS IDENTIFICATION

4. FIRST AID MEASURES

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. Never give anything by mouth to an unconscious person. 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, seek medical attention.

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, seek medical attention.

First Aid Facilities

Eye wash and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Small fire: Dry chemical.

Large fire: Water spray, fog or foam. Do NOT use water jet.

Specific Methods

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

Specific Hazards

Combustible liquid.

6. ACCIDENTAL RELEASE MEASURES

Other Information

Spilt product presents a slip hazard. Avoid accidents-clean up immediately. 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. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

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 lubricants and industrial oils 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

Classified as a 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 oxidising materials. Reference should be made to Australian Standard AS1940-The storage and handling of flammable and combustible liquids.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, exposure should always be maintained at minimum possible levels.

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. 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 or face shield as appropriate. Refer to the Australian Standard AS/NZS 1337- Eye Protectors for Industrial Applications.

Hand Protection

Impervious gloves such as PVC or nitrile recommended.

Body Protection

Wear appropriate protective clothing including synthetic 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Grey paste.

Odour

Characteristic odour.

Boiling Point

Not available

Solubility in Water

Not available

Specific Gravity

(H₂O=1)

0.934-0.944

pH Value

Not applicable

Viscosity

Not available

Volatile Component

Not available

Flash Point

210°C (COC)

Flammability

Classified as a Class C2 (COMBUSTIBLE LIQUID). Remove all sources of heat and ignition.

Flammable Limits LEL

Not available

Flammable Limits UEL

Not available

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of storage and handling.

Hazardous**Polymerization**

Will not occur.

Materials to Avoid

Strong oxidising agents.

Hazardous**Decomposition****Products**

Oxides of carbon, nitrogen and sulphur. Metallic oxides. Phosphates.

11. TOXICOLOGICAL INFORMATION

Toxicology**Information**

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, IARC, NTP or OSHA.

Inhalation

Low volatility makes inhalation unlikely at ambient temperatures. However, may cause irritation to the respiratory system if the material is heated or mists are generated. High vapour concentrations may cause headache, dizziness, drowsiness, nausea and lead to unconsciousness.

Ingestion

May cause irritation to the gastrointestinal system. Symptoms may include nausea, vomiting, diarrhoea and abdominal pain.

Skin

Unlikely to irritate on brief or occasional contact. Repeated or prolonged contact may dry and defat the skin, resulting in skin irritation and possible dermatitis.

Eye

May cause slight to moderate transient eye irritation, resulting in redness, stinging and lachrymation.

Chronic Effects

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

12. ECOLOGICAL INFORMATION

Environ. Protection

Prevent this material from entering the environment.

**Persistence /
Degradability**

Products of degradation are oxides of carbon, sulphur and nitrogen.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

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

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Poisons Schedule

Not Scheduled

16. OTHER INFORMATION

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

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