

Material Safety Data Sheet

Infosafe No. 5CA1J Issue Date: February 2004 ISSUED by CASTROL
Product Name: MOLUB ALLOY 880 SF

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name

MOLUB ALLOY 880 SF

Product Use

Industrial applications.

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)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition

Contains petroleum distillate, petroleum resins and additives.

| Ingredients | Name | CAS | Proportion |
|-------------|--|--------------|------------|
| | Ingredients determined not to be hazardous | Not required | 100 % |

3. HAZARDS IDENTIFICATION

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 880 SF

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.

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. 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.

5. FIRE FIGHTING MEASURES

Product Name : MOLUB ALLOY 880 SF

Extinguishing Media

Small fire: Use dry chemical powder.

Large fire: Use water spray, fog or foam.

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.

Precautions in**connection with Fire**

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

6. ACCIDENTAL RELEASE MEASURES

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.

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 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.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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 ³ | ppm | mg/m ³ |
| 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Product Name : MOLUB ALLOY 880 SF

Dark paste.

Odour

Characteristic odour.

Boiling Point

Not available.

Solubility in Water

Insoluble in cold water.

Specific Gravity

(H₂O=1)

1.16-1.17

pH Value

Not applicable.

Vapour Pressure

Not available.

Flash Point

Approx 194°C (COC)

Flammability

Combustible substance. 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

Oxidising agents, acids and alkalies.

Hazardous**Decomposition****Products**

Oxides of carbon.

Hazardous Reaction

May react with oxidising agents.

Conditions to Avoid

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

11. TOXICOLOGICAL INFORMATION

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/or 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.

12. ECOLOGICAL INFORMATION

Environ. Protection

Prevent this material from entering the environment.

Mobility

No data available for this specific product.

Persistence / Degradability

No data available for this specific product.

Bioaccumulation

No data available for this specific product.

Ecotoxicity

No data available for this specific product.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Product Name : MOLUB ALLOY 880 SF

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)

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 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 Review: February 2004.

MSDS Supersedes: February 1999.

Product Name : MOLUB ALLOY 880 SF

...End Of MSDS...