

Material Safety Data Sheet

Infosafe No. ACQR3 Issue Date: May 2003 ISSUED by CASTROL
Product Name: **CASTROL INERTOX HEAVY**

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name

CASTROL INERTOX HEAVY

Product Use

Lubrication.

Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. See 'Medical Advice' under First-Aid Measures Section 4 of this Safety Data Sheet.

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

Castrol Optimol Inertox Heavy

Product Type

High temperature grease.

Other Information

Castrol Technical Help Line 1300 557 998 (Local call)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition

Lubricant based on a synthetic perfluorinated polyester oil and additives.

Ingredients

Name

CAS

Proportion

Not required

100 %

Product Name : CASTROL INERTOX HEAVY

Ingredients determined
not to be hazardous

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. 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 for approximately 15 minutes 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

Extinguishing Media

Carbon dioxide, dry chemical, or foam.

Do NOT use water jets. Cool fire exposed containers with water spray.

Specific Methods

Product Name : CASTROL INERTOX HEAVY

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

Specific Hazards

Non flammable. Thermal decomposition will generate toxic and corrosive fumes including Hydrogen fluoride.

Decomposition Temp.

>300°C

6. ACCIDENTAL RELEASE MEASURES

Other Information

SMALL - 20 LITRES OR LESS

Soak up on Castrol Diatomaceous Earth or similar inert oil absorbent. Arrange for disposal through an approved facility.

LARGE - GREATER THAN 20 LITRES

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.

7. HANDLING AND STORAGE

Handling

Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. Avoid prolonged or repeated breathing of vapours or fumes. 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. Keep container closed and bung in place. Do NOT burn materials contaminated with this product.

Storage

Store in a cool, dry, well-ventilated area, out of direct sunlight. Maintain ambient temperature. Keep container tightly closed. Store away from incompatible materials.

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 Standards for the decomposition product Hydrogen fluoride are listed below.

Product Name : CASTROL INERTOX HEAVY

| SUBSTANCE | | TWA | | STEL | |
|-------------------|-----|-------------------|-----|-------------------|----------|
| mg/m ³ | ppm | mg/m ³ | ppm | mg/m ³ | ppm |
| fluoride, (as F) | 3 | 2.6 | - | - | Hydrogen |

Peak limitation notice: For some rapidly acting substances and irritants, averaging of airborne concentration over an eight hour period is inappropriate. These substances may induce acute effects after relatively brief exposure to high concentrations and so the exposure standard for these substances represents a maximum or peak concentration to which workers may be exposed.

Respiratory Protection

Avoid breathing of vapours, mists or spray. Under conditions of use 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.

Please note: Where Hydrogen fluoride may be present, extra attention must be given to the selection of respiratory protection.

Eye Protection

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

Hand Protection

Impervious gloves recommended. A glove manufacturer is recommended to ensure gloves chosen are appropriate for the application.

Body Protection

Impervious protective clothing where likely to be contaminated.

Eng. Controls

Where excessive vapour or mist is generated, the use of respiratory protection, or a local exhaust ventilation system is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

White pasty grease.

Decomposition

Temperature

>300°C

Melting Point

0°C

Boiling Point

Product Name : CASTROL INERTOX HEAVY

Not available

Solubility in Water

Insoluble

Specific Gravity

(H₂O=1)

1.97 @ 15.5°C

pH Value

Not applicable

Vapour Pressure

Not available

Viscosity

Not available

Volatile Component

6.72%

Flash Point

Not available

Flammability

Non flammable. Thermal decomposition will generate toxic and corrosive fumes including Hydrogen fluoride.

Ignition Temperature

Not available

Flammable Limits LEL

Not available

Flammable Limits UEL

Not available

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of storage and handling.

Materials to Avoid

Lewis acid catalysts, strong or non-aqueous alkali and strong oxidising agents.

Hazardous**Decomposition****Products**

Oxides of carbon, nitrogen, sulphur, and toxic fluorine compounds.

11. TOXICOLOGICAL INFORMATION

**Toxicology
Information**

Product Name : CASTROL INERTOX HEAVY

No component known to be present in this product at >0.1% is presently listed as a carcinogen by the IARC, NTP or OSHA.

Inhalation

May cause irritation to the mucous membrane and upper airways, especially if the material is heated or mists are generated and/or is used in poorly ventilated areas. Symptoms may include headache, dizziness and nausea. Inhalation of decomposition products may cause respiratory irritation and induce Polymer Fume Fever condition. Symptoms of exposure are lung irritation, pulmonary oedema, flu like symptoms (ie fever/chills).

Ingestion

May cause irritation to the mouth, oesophagus and stomach. Symptoms may include nausea, vomiting and diarrhoea.

Skin

Unlikely to irritate on brief 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.

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

Product Name : CASTROL INERTOX HEAVY

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

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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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