

Material Safety Data Sheet

Infosafe No. CAS3P Issue Date: August 2004 ISSUED by CASTROL
Product Name: CASTROL OPTIMOL VISCOGEN KL9

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name

CASTROL OPTIMOL VISCOGEN KL9

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)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition

Contains synthetic lubricant 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 : CASTROL OPTIMOL VISCOGEN KL9

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S61 Avoid release to the environment. Refer to special instructions/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.

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

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media

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

Specific Hazards

Combustible C2 liquid. Fire-exposed container may rupture/explode.

Hazardous

Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes including oxides of carbon, oxides of nitrogen, oxides of sulfur, phosphates and some metallic oxides.

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

Corrosiveness

Not corrosive to aluminium.

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 C2 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). 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 exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC).

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

Natural ventilation should be sufficient, however where vapours or mists are generated the use of a local exhaust ventilation system (drawing vapours/mists away from workers breathing zone) is recommended.

Other Information

No biological limit allocated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Green liquid.

Odour

Mild odour

Boiling Point

Not available.

Solubility in Water

Insoluble

pH Value

Not applicable

Vapour Pressure

0.1 kPa (0.075 mmHg) @ 20°C

Vapour Density

(Air=1)

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Not applicable

Pour Point

-51°C

Density

1000 kg/m³ @ 20°C

Flash Point

230°C (Closed Cup)

Flammability

Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940. Remove all sources of heat and ignition.

Flammable Limits LEL

Not available.

Flammable Limits UEL

Not available.

Kinematic Viscosity

99.1 cSt @ 40°C

12.2 cSt @ 100°C

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Hazardous**Polymerization**

Will not occur.

Materials to Avoid

Strong oxidising agents.

Hazardous**Decomposition****Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulfur, phosphates and some metallic oxides..

Hazardous Reaction

Hazardous reaction with strong oxidising agents.

Conditions to Avoid

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

11. TOXICOLOGICAL INFORMATION

**Toxicology
Information**

No toxicity data is available for this material. No component of this product at levels greater than 0.1% is identified as a carcinogen by the International Agency for Research on Cancer (IARC).

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 irritation in contact with the eyes which could result in redness, stinging and tearing.

Chronic Effects

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

12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Environ. Protection

Prevent this material from entering the environment.

Mobility

Non-volatile. Liquid. Insoluble in water.

**Persistence /
Degradability**

This product is inherently biodegradable.

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. and state 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

Risk Phrase

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Poisons Schedule

Not Scheduled

Hazard Category

Dangerous for the environment

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

SDS History

MSDS Creation: August 2004

...End Of MSDS...