



Material Safety Data Sheet

Product Name

PENNZOIL PREMIUM WHEEL BEARING GREASE EP2

Infosafe No.

ACRO1

Issue Date: July 2003

ISSUED by SHELL

Not classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name

Shell Company of Australia Ltd. (ABN 46 004 610 459)

Address

Level 2, 8 Redfern Road Hawthorn East
VIC 3123 Australia

Emergency Tel.

1800 651 818

Tel/Fax

Tel: 03 9666 5444 Fax: 1800 332 550

IDENTIFICATION

Product Code

15109

Product Name

PENNZOIL PREMIUM WHEEL BEARING GREASE EP2

Proper Shipping Name

None Allocated

UN Number

None Allocated

DG Class

None Allocated

Packing Group

None Allocated

Hazchem Code

None Allocated

Poisons Schedule

Not Scheduled



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Product Use

High performance, high temperature automotive grease.

Physical Data

Appearance

Light brown semi-solid grease with a characteristic mineral oil odour.

Melting Point

Not available

Boiling Point

Not available

Vapour Pressure

< 0.5 Pa @ 20°C (based on mineral oil)

Specific Gravity

0.91 @ 15°C

Flash Point

> 200°C (based on mineral oil)

Flamm. Limit LEL

1% v/v (based on mineral oil)

Flamm. Limit UEL

10% v/v (based on mineral oil)

Solubility in Water

Negligible

Density

900 kg/m³ @ 15°C

Other Properties

Autoignition Temp.

Typically > 320°C

Vapour Density

> 1 (Air = 1)

Stability

Stable.



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Haz. Polymerization

Will not occur.

Materials to Avoid

Strong oxidizing agents.

Ingredients

Ingredients Name

CAS Proportion

Ingredients determined not to be hazardous

100 %

Other Information

A lubricating grease containing highly-refined mineral oils and additives.

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed

Ingestion may irritate the gastric tract causing nausea and vomiting.

Acute - Eye

Product may cause slight to moderate irritation to the eyes.

Acute - Skin

Skin contact may cause mild irritation.

Acute - Inhaled

Inhalation of the vapours (generated at elevated temperatures) or mists may cause irritation to the nose and throat.

Chronic

Prolonged or repeated skin contact may cause defatting leading to dermatitis.

First Aid

Swallowed

Do NOT induce vomiting. Contact a Poisons Information Centre (Phone 131 126) or a doctor for advice.



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Eye

If contact with the eye(s) occurs, wash with copious amounts of water. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.

Skin

Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention. If high pressure injection injury occurs seek medical attention immediately.

Inhaled

Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop seek medical attention.

First Aid Facilities

Eye wash and normal washroom facilities.

Advice to Doctor

Advice to Doctor

Treat symptomatically.

Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits

The following National Occupational Health And Safety Commission (NOHSC) exposure limit applies:

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Oil mist, refined mineral	-	5	-	-

Eng. Controls

Special ventilation is not normally required due to the low volatility of the product at normal temperatures. However, in the operation of certain equipment or at elevated temperatures, mists or vapour may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard or where no exposure standard is allocated, as low as is reasonably practicable.



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Personal Protection

Protective Equip.

Avoid contact with the skin and eyes, and avoid breathing vapours or mists. When exposure is likely, personal protective equipment in a combination appropriate to the degree and nature of exposure, should be selected from the following list:-

- (1) Eye protection
- (2) PVC gloves
- (3) PVC apron and sleeves, or full PVC covering
- (4) PVC or rubber boots

Where the concentration of vapour or mist is expected to approach the exposure limit, the following additional equipment is recommended:-

- (1) Short elevated exposures, eg spillage - goggles and correct respiratory protection should be worn.
NB. If the vapour/mist concentrations exceed the exposure limit by more than 10 times, air supplied apparatus should be used.
- (2) For prolonged elevated exposures - Full face air supplied or self contained breathing apparatus should be worn.

CONTAMINATION

If contamination occurs, change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse.

Observe good personal hygiene.

Flammability

Fire Hazards

Combustible liquid, will not burn unless preheated. Refer to AS 1940 - Storage and handling of flammable and combustible liquids and AS 2865 - Safe working in a confined space, for more specific information on these subjects.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions

Classified as a class C2 combustible liquid for storage and handling purposes. Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use.



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Transport

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Proper Shipping Name

None Allocated

Spills and Disposal

Spills & Disposal

Extinguish or remove all sources of ignition and stop leak if safe to do so. Contain the spill with sand or earth and take up with a vacuum truck or absorb with absorbent material, sand or earth. Place used absorbent in suitable sealed, labelled containers for disposal.

Disposal

Follow state or local authority regulations and guidelines for disposal of the waste. Clean area with detergent and water. Do not allow product to enter drains, sewers or water courses - inform the local authorities if this occurs.

Fire/Explosion Hazard

Fire/Explos. Hazard

Combustible. Keep storage tanks, pipelines, fire exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition.

Hazardous Combustion Products

Combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide, oxides of sulphur, and unidentified organic and inorganic compounds.

Fire Fighting Procedures

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

Extinguishing Media

Use foam, CO2 or powder to extinguish fire.

Hazardous Reaction

Stable. Reacts with oxidising agents.

Hazchem Code

None Allocated

Conditions to Avoid

Extremes of temperature and direct sunlight.



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OTHER INFORMATION

Toxicology

Long term animal experiments have shown that any health risks are associated with the level of aromatic and polycyclic constituents in the product. These constituents are removed during the manufacturing process to a level at which no health risks are expected as a result of normal handling.

References

For detailed advice on Personal Protective equipment, refer to the following Australian Standards :-

HB 9 (Handbook 9)	Manual of industrial personal protection.
AS 1337	Eye protectors for industrial applications.
AS 1715	Selection, use and maintenance of respiratory protective devices.
AS 1716	Respiratory protective devices.

Mobility

Semi-solid under most environmental conditions. Floats on water. If it comes into contact with soil, it will strongly adsorb to soil particles.

Persistence / Degradability

Not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulation

Has the potential to bioaccumulate.

Ecotoxicity

Poorly soluble mixture. May cause physical fouling of aquatic organisms. Practically non-toxic, LC/EC50 > 100 mg/L, to aquatic organisms.

CONTACT POINT

Contact

National 24 hr Emergency Response :- 1800 651 818