

Material Safety Data Sheet

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Infosafe No™ 5FV7P Issue Date : May 2010 ISSUED by FUCHS

Product Name **HP EP2 PLUS BEARING GREASE**

Not classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HP EP2 PLUS BEARING GREASE
Product Code 4126
Company Name IVECO Tucks Australia Ltd.
Address Princes Highway Dandenong
VIC 3175 Australia
Telephone/Fax Number Tel: Tel 03-92882200
Recommended Use Supplied as a lithium lubricating grease for use in suitable applications only.

2. HAZARDS IDENTIFICATION

Hazard Classification Not classified as hazardous
NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Lithium hydroxide monohydrate	1310-66-3	<10 %
	Zinc dialkyldithiophosphate derivative	Mixture	<10 %
	Benzotriazole	95-14-7	<10 %
	Gear Additive	Mixture	<10 %
	Dyestuff	mixture	<1 %
	Ingredients determined to be non hazardous		To 100%

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 face mask if breathing is difficult. If symptoms develop, seek medical attention.

Ingestion Do NOT induce vomiting. Wash out mouth with water. Seek medical attention.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with soap and running water. Wash contaminated clothing before re-use. If irritation occurs seek medical attention

Eye If contact with the eye(s) occur, wash with running water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.

First Aid Facilities Normal washroom facilities are generally suitable. Ensure an eyewash station and safety shower are available and ready for use.

Advice to Doctor Treat symptoms.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Foam, dry fire-extinguishing substance, carbon dioxide and water mist.

Special Protective Equipment for fire fighters Use breathing apparatus with independent air supply.

Specific Methods Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.

Unsuitable Extinguishing Media Full water jet.

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6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Contain - prevent contamination of drains and waterways. Use absorbent (soil or sand, sawdust, inert material, vermiculite). Collect and seal in properly labelled drums for disposal. Dispose of waste as per Local, State and Federal Land Waste Management Authorities. (Victoria:MMBW (03) 9615 6099)
Personal Precautions	Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. Avoid ingestion of product. Avoid contact with skin and eyes by wearing appropriate protective clothing.
Environmental Precautions	Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the subsoil/soil.

7. HANDLING AND STORAGE

Precautions for Safe Handling	As with any industrial chemical, handle the product in a manner that minimises exposure to practicable levels. Ensure the appropriate personal protective equipment is used when handling this product, refer to Section 8 of this MSDS. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet.
Conditions for Safe Storage	Store in a cool place, out of direct sunlight. Store away from ignition sources, oxidising agents, foodstuffs and clothing. Protect containers against physical damage and check regularly for leaks. Do not store in open or unlabelled containers. Refer to NOHSC:1015 National Standard for Storage and Handling of Workplace Dangerous Goods for further information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standards have been established for this material by the Australian Society of Cosmetic Chemists (ASCC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. Petroleum distillates: OSHA 5mg/m ³ ; ACGIH 5mg/m ³
Engineering Controls	Maintain concentration below recommended exposure limit. Use with good general ventilation. If mists or vapours are produced local exhaust ventilation should be used.
Respiratory Protection	A self-contained breathing apparatus is recommended in all situations where airborne contaminant concentration had not been confirmed to be below safe levels. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
Eye Protection	Where splashing is not likely, chemical safety glasses with side shields are recommended. Where splashing may occur, chemical goggles or full face shield is recommended.
Hand Protection	PVC, neoprene, or nitrile rubber gloves.
Body Protection	Suitable work wear should be worn to protect personal clothing, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled, the use of plastic aprons and rubber boots is recommended. Industrial clothing should conform to the specifications detailed in AS 2919 - Industrial clothing.
Hygiene Measures	Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash skin thoroughly and immediately after handling the product. At work do not eat, drink and smoke. Work in rooms with good ventilation. Use barrier skin cream.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red coloured grease
Dropping Point	> 180°C ASTM D2265

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Product Name **HP EP2 PLUS BEARING GREASE**

Not classified as hazardous

Other Information Thickening agent: Lithium
NLGI grade: 2
Worked Penetration, 60 strokes: 280 ASTM D217
See Product Information Sheet for more details.

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Incompatible Materials Incompatible with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

Hazardous Decomposition Products On burning will emit toxic fumes, smoke and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No adverse health effects are expected if this product is used in accordance with this Safety Data Sheet.

Inhalation Not normally considered to be a hazard due to the non-volatile nature of the product.
Inhalation of oil mist/vapour from heated material may cause irritation of the upper respiratory system.

Ingestion Ingestion may cause mild irritation of the mouth, throat, and stomach with nausea and mild diarrhoea.
Large amounts of ingestion can cause vomiting which can lead to lung aspiration.

Skin Product will have a defatting effect on the skin.
Contact with skin may cause irritation.
Prolonged or repeated exposure can result in irritation and in severe cases dermatitis.

Eye May be an low eye irritant. Repeated or prolonged contact with eyes may cause eye irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available for this material.

Persistence / Degradability Non-biodegradable.

Mobility No data is available for this material.

Environ. Protection Prevent this material entering waterways, drains and sewers. Do not allow uncontrolled leakage of product into the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of waste according to federal, EPA, state and local regulations.

14. TRANSPORT INFORMATION

Storage and Transport Store in cool place and out of direct sunlight. Store away from sources of heat or ignition. Keep away from strong oxidizing agents. Do not store sealed containers near extreme heat. Do not reuse container.

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled

Packaging & Labelling Not regulated.

16. OTHER INFORMATION

Literature References

- * NOHSC:2011 National Code of Practice for the Preparation of Material Safety Data Sheets
- * NOHSC:1008 Approved Criteria for Classifying Hazardous Substances
- * NOHSC:10005 List of Designated Hazardous Substances
- * NOHSC:1005 Control of Workplace Hazardous Substances, National Model Regulations
- * NOHSC:2007 Control of Workplace Hazardous Substances, National Code of

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Issue Date : May 2010

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Product Name **HP EP2 PLUS BEARING GREASE**

Not classified as hazardous

Practice

- * NOHSC:1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards
- * NOHSC:3008 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, Guidance Note
- * NOHSC:1015 Storage and Handling of Workplace Dangerous Goods, National Standard
- * NOHSC:2017 Storage and Handling of Workplace Dangerous Goods, National Code of Practice
- * SUSMP, Standard for the Uniform Scheduling of Medicines and Poisons
- * ADG, Australian Dangerous Goods Code
- * IMDG Code, International Maritime Dangerous Goods Code
- * IATA Dangerous Goods Regulations, International Air Transport Association
- * MSDS of component materials

Last Change

Supersedes Issue Date: 18.12.2007

Reason(s) for Issue: Local manufacturing classification.

Technical Contact Point

Laboratory Manager (03) 9300 6400

Research & Development Chemist (03) 9300 6400

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If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Material Safety Data Sheets are updated frequently. Please ensure you have a current copy.

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Infosafe No™ 5FV70 Issue Date : May 2010 ISSUED by FUCHS

Product Name **HP LIX2 PLUS HIGHTEMP GREASE**

Not classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HP LIX2 PLUS HIGHTEMP GREASE
Product Code 4125
Company Name Fuchs Lubricants (Australasia) Pty Ltd (ABN 88 005 681 916)
Address 49 McINTYRE ROAD SUNSHINE
VIC 3020 Australia
Emergency Tel. 1800 638 556 (24hr AUST) 0800 154 166 (24hr NZ)
Telephone/Fax Number Tel: +61 (0)3 9300 6400
Fax: +61 (0)3 9300 6401
Email customer.service@fuchs.com.au
Recommended Use Supplied as a lithium complex lubricating grease for use in suitable applications only.

2. HAZARDS IDENTIFICATION

Hazard Classification Not classified as hazardous
NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Semi-solid

Ingredients	Name	CAS	Proportion
	Lithium hydroxide monohydrate	1310-66-3	<10 %
	Zinc dialkyldithiophosphate derivative	Mixture	<10 %
	Oil soluble metal deactivator	94270-86-7	<10 %
	Ingredients determined to be non hazardous		To 100%

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 face mask if breathing is difficult. If symptoms develop, seek medical attention.
Ingestion Do NOT induce vomiting. Wash out mouth with water. Seek medical attention.
Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with soap and running water. Wash contaminated clothing before re-use. If irritation occurs seek medical attention
Eye If contact with the eye(s) occur, wash with running water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.
First Aid Facilities Normal washroom facilities are generally suitable. Ensure an eyewash station and safety shower are available and ready for use.
Advice to Doctor Treat symptoms.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Foam, dry fire-extinguishing substance, carbon dioxide and water mist.
Special Protective Equipment for fire fighters Use breathing apparatus with independent air supply.
Specific Methods Do not direct a solid stream of water or foam into hot, burning pools; this

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Product Name **HP LIX2 PLUS HIGHTEMP GREASE**

Not classified as hazardous

Unsuitable Extinguishing Media may cause frothing and increase fire intensity.
Full water jet.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Contain - prevent contamination of drains and waterways.
Use absorbent (soil or sand, sawdust, inert material, vermiculite).
Collect and seal in properly labelled drums for disposal.
Dispose of waste as per Local, State and Federal Land Waste Management Authorities. (Victoria:MMBW (03) 9615 6099)

Personal Precautions Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. Avoid ingestion of product. Avoid contact with skin and eyes by wearing appropriate protective clothing.

Environmental Precautions Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the subsoil/soil.

7. HANDLING AND STORAGE

Precautions for Safe Handling As with any industrial chemical, handle the product in a manner that minimises exposure to practicable levels.
Ensure the appropriate personal protective equipment is used when handling this product, refer to Section 8 of this MSDS.
Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet.

Conditions for Safe Storage Store in a cool place, out of direct sunlight.
Store away from ignition sources, oxidising agents, foodstuffs and clothing.
Protect containers against physical damage and check regularly for leaks.
Do not store in open or unlabelled containers.
Refer to NOHSC:1015 National Standard for Storage and Handling of Workplace Dangerous Goods for further information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material by the Australian Society of Cosmetic Chemists (ASCC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour.
Petroleum distillates: OSHA 5mg/m³; ACGIH 5mg/m³

Engineering Controls Maintain concentration below recommended exposure limit. Use with good general ventilation. If mists or vapours are produced local exhaust ventilation should be used.

Respiratory Protection A self-contained breathing apparatus is recommended in all situations where airborne contaminant concentration had not been confirmed to be below safe levels.
Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

Eye Protection Where splashing is not likely, chemical safety glasses with side shields are recommended. Where splashing may occur, chemical goggles or full face shield is recommended.

Hand Protection PVC, neoprene, or nitrile rubber gloves.

Body Protection Suitable work wear should be worn to protect personal clothing, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled, the use of plastic aprons and rubber boots is recommended. Industrial clothing should conform to the specifications detailed in AS 2919 - Industrial clothing.

Hygiene Measures Do not inhale gases/vapours/aerosols.
Avoid contact with skin and eyes.
Remove soiled or soaked clothing immediately.
Wash skin thoroughly and immediately after handling the product.
At work do not eat, drink and smoke.
Work in rooms with good ventilation.
Use barrier skin cream.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Product Name **HP LIX2 PLUS HIGHTEMP GREASE**

Not classified as hazardous

Form Semi-solid
Appearance Blue coloured grease
Odour Characteristic.
Dropping Point > 250°C ASTM D2265
Other Information Thickening agent: Lithium complex
NLGI grade: 2
Worked Penetration, 60 strokes: 275 ASTM D217
Base Oil Viscosity @ 40°C: 160 cSt ASTM D445
See Product Information Sheet for more details.

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.
Incompatible Materials Incompatible with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.
Hazardous Decomposition Products On burning will emit toxic fumes, smoke and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No adverse health effects are expected if this product is used in accordance with this Safety Data Sheet.
Inhalation Not normally considered to be a hazard due to the non-volatile nature of the product.
Inhalation of oil mist/vapour from heated material may cause irritation of the upper respiratory system.
Ingestion Ingestion may cause mild irritation of the mouth, throat, and stomach with nausea and mild diarrhoea.
Large amounts of ingestion can cause vomiting which can lead to lung aspiration.
Skin Product will have a defatting effect on the skin.
Contact with skin may cause irritation.
Prolonged or repeated exposure can result in irritation and in severe cases dermatitis.
Eye May be an low eye irritant. Repeated or prolonged contact with eyes may cause eye irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available for this material.
Persistence / Degradability Non-biodegradable.
Mobility No data is available for this material.
Environ. Protection Prevent this material entering waterways, drains and sewers. Do not allow uncontrolled leakage of product into the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of waste according to federal, EPA, state and local regulations.

14. TRANSPORT INFORMATION

Storage and Transport Store in cool place and out of direct sunlight. Store away from sources of heat or ignition. Keep away from strong oxidizing agents. Do not store sealed containers near extreme heat. Do not reuse container.

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled
Packaging & Labelling Not regulated.

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Product Name **HP LIX2 PLUS HIGHTEMP GREASE**

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16. OTHER INFORMATION

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- * MSDS of component materials

Last Change

Supercedes Issue Date: 18.12.2007

Technical Contact Point

Reason(s) for Issue: Local manufacturing classification.

Laboratory Manager (03) 9300 6400

Research & Development Chemist (03) 9300 6400

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