

Material Safety Data Sheet

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Infosafe No™ 5FV9E Issue Date : May 2010 ISSUED by FUCHS

Product Name **HP TO-450**

Not classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HP TO-450
Product Code 4123
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 heavy duty transmission and final drive lubricant oil for use in suitable applications only.
Additional Information Refer to Product Information Sheet for further information.
Other Information Fuchs Lubricants (New Zealand) Limited
Harbourside Business Park
485C Rosebank Road
AVONDALE AUCKLAND 1026
Phone: +64 9 828 3255
Fax: +64 9 830 3643

Visit our website: www.fuchs.com.au
Orders Freecall (in Australia): 1800 1800 13
Orders Freecall (in New Zealand): 0800 382 476

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.
Irritancy of Product Not classified as an irritant.
Sensitization of Product Not known to be a sensitiser.
Teratogenicity No teratogenic effects known.
Other Information Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and environment on disposal. All used oils should be handled with caution and skin contact avoided as far as possible.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Mineral oil		70-100 %
	Ingredients determined not to be hazardous	Mixture	To 100%
	Zinc alkyldithiophosphate	N\Alloc.	0-4.99 %

Other Information The petroleum oils in this product contain less than 3% DMSO extract as measured by the IP 346 test method.

4. FIRST AID MEASURES

Inhalation Remove victim from exposure - avoid becoming a casualty. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage.

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Ingestion	Give water to drink. DO NOT induce vomiting. Seek medical attention. If vomiting occurs get immediate medical attention due to aspiration risk.
Skin	Wash with plenty of soap and water. If irritation occurs seek medical advice. Remove contaminated clothing and wash before re-use.
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. 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 symptomatically.
Other Information	Keep water and mild soap near work site.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Extinguish fire with the following: Use CO2, dry chemical or foam.
Hazards from Combustion Products	Combustion products may include: a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide, carbon dioxide, soot, oxides of sulfur, and unidentified organic and inorganic compounds.
Specific Methods	Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.
Specific Hazards	Low hazard
Precautions in connection with Fire	If safe to do so, remove containers from path of fire. Keep containers cool with water spray. Avoid spreading liquid and fire by water flooding.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Slippery when spilt. Avoid accidents, clean up immediately. CLEAN-UP METHODS - SMALL SPILLAGE (20L or less): Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum. Scrub contaminated surfaces with detergent solution. Retain washings as contaminated waste. CLEAN-UP METHODS - LARGE SPILLAGE (more than 20L): Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as for small spillage. Dispose according to local regulations. PERSONAL PRECAUTIONS: Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Evacuate the area of all non-essential personnel. Take precautionary measures against static discharge. Shut off leaks, if possible without personal risk. Avoid contact with skin, eyes, clothing. Do not breathe vapour. Ventilate contaminated area thoroughly. Dispose according to local regulations.
Other Information	PROCEDURES IN CASE OF BREAKAGE OR LEAKAGE: Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing as discussed in this MSDS. Cover spill with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a labelled disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a labelled disposable container. Prevent contamination of groundwater or surface water.

7. HANDLING AND STORAGE

Precautions for Safe Handling	When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Ensure the appropriate personal protective equipment is used when handling this material.
Conditions for Safe Storage	Keep containers closed at all times. Store in cool place and out of direct sunlight. Store away from oxidizing agents. Check containers regularly for leaks.
Corrosiveness	Not corrosive
Storage Regulations	Store in a well-ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Refer to AS 1940 The Storage and Handling of Flammable and Combustible

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Liquids, and 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 standard has been established for this product. NOHSC Exposure Standard: Oil mists - time weighted average (TWA) 5 mg/m ³ and a short term exposure limit (STEL) 10mg/m ³ is recommended.
Other Exposure Information	Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short term exposure limit (STEL).
Engineering Controls	Maintain concentration below recommended exposure limit. 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.
Respiratory Protection	Respirator not normally required. Airborne concentrations should be kept to lowest levels possible. If vapour, mist or dust is generated and the occupational exposure limit of the product is exceeded, use appropriate AS/NZS 1715/1716 approved half-face filter respirator suitable for organic vapours or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content of the air is unknown.
Eye Protection	Safety glasses, goggles or faceshield as appropriate.
Hand Protection	PVC gloves.
Footwear	Enclosed footwear.
Body Protection	Overalls or similar protective apparel.
Hygiene Measures	Always wash hands before smoking, eating, drinking or using the toilet. If contamination occurs, change clothing. Discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse.
Special Protective Measures	Will not burn unless preheated. Isolate from sources of heat, naked flame, or sparks.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Dark amber liquid
Odour	Mild
Melting Point	Less than 0°C
Boiling Point	Greater than 300°C
Solubility in Water	Not soluble
Solubility in Organic Solvents	Soluble in petroleum solvents
pH Value	Not relevant
Vapour Pressure	Less than 0.1 kPa
Vapour Density (Air=1)	Greater than 2.0 (Air = 1)
Evaporation Rate	Less than 1 (n-butyl acetate = 1)
Viscosity	Approximately 200 mm ² /s @ 40°C (kinematic)
Colour	Clear amber/brown
Density	0.907 kg/L @ 15°C typical

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Flash Point	Greater than 180.0 °C (PMCC)
Flammability	Combustible liquid C2 according to AS 1940.
Auto-Ignition Temperature	Greater than 250°C
Flammable Limits - Lower	Approximately 1.5%
Flammable Limits - Upper	Approximately 6.0%
Explosion Properties	Not considered an explosion risk under normal conditions of use
Other Information	These physical data and other properties do not constitute a specification

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use
Incompatible Materials	Strong oxidising agents
Hazardous Reactions	Will react with strong oxidising agents.
Hazardous Polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Toxicology Information	This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, hydrocracking and hydrotreating. These oils have not been listed in the U.S. National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans. Oral LD50 ({}UD01}): {}UD02} mg/kg
Inhalation	Inhalation of mists or aerosols can produce respiratory irritation.
Ingestion	May cause mild irritation of the mouth, throat, and stomach with nausea and mild diarrhoea. Large amounts can cause vomiting which can lead to aspiration of vomited material into the lungs.
Skin	Will have a defatting effect on the skin. Contact with skin may result in irritation.
Eye	May cause watering of eyes.
Chronic Effects	Prolonged or repeated exposure may result in irritation, with the possibility of dermatitis
Reproductive Toxicity	This Product contains small amounts of para-dodecylphenol. Rats given high, repeated daily doses by oral intubation experienced adverse reproductive effects. The relevance of these effects to humans is uncertain.
Mutagenicity	Mutagenic effects not known.
Carcinogenicity	Product is not a known carcinogen.

12. ECOLOGICAL INFORMATION

Short Summary of Assessment of Environmental Impact	Leaching and penetration through surface soils is generally regarded as resulting in long-term persistence. Fresh or used product may be harmful to aquatic life.
Environ. Protection	Do not allow material to enter drains or waterways.

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

Transport Information	Not regulated for transport.
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15. REGULATORY INFORMATION

Poisons Schedule	Not Scheduled
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Packaging & Labelling No special packaging or labelling requirements.

16. OTHER INFORMATION

Contact Person/Point Legislative Officer +61 (0)3 9300 6400
Research & Development Chemist +61 (0)3 9300 6400
New Zealand Office +64 9 828 3255
Emergency Tel. 1800 638 556 (24hr AUST) 0800 154 166 (24hr NZ)

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

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.

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 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:
Reason/s for revision: Alignment to NOHSC requirements.
...End Of MSDS...

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