

# Material Safety Data Sheet

CS: 1.4.93

Page: 1 of 5

Infosafe No™ 5FV8E Issue Date : February 2010 ISSUED by FUCHS

Product Name : Caps Rotary Screw Compressor Oil ISO 46

Not classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** Caps Rotary Screw Compressor Oil ISO 46  
**Product Code** 3322  
**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 zinc free hydraulic oil for use in suitable applications only.  
**Other Information** 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.  
**Risk Phrase(s)** Not classified as hazardous  
**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 and greases 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 and greases should be handled with caution and skin contact avoided as far as possible.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>	<b>Hazard Symbol</b>	<b>Risk Phrase</b>
	Mineral Oil	Not required	70-100 %		
	Ingredients determined not to be hazardous	Mixture	0-30 %		
	Hydroxyalkyl carboxylic ester	Confidential	0-0.09 %	Xi	R38

**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.  
**Ingestion** Give water to drink. DO NOT induce vomiting. Seek medical attention. If vomiting occurs get immediate medical attention due to aspiration risk.

# Material Safety Data Sheet

CS: 1.4.93

Page: 2 of 5

Infosafe No™ 5FV8E Issue Date : February 2010 ISSUED by FUCHS

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<b>Skin</b>	Wash with plenty of soap and water. If irritation occurs seek medical advice. Remove contaminated clothing and wash before re-use. If material is injected under skin, seek medical attention to prevent serious damage. Do not wait for symptoms to develop. Show this MSDS to the doctor drawing attention to 'Advice to doctor' section.
<b>Eye</b>	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.
<b>First Aid Facilities</b>	Normal washroom facilities are generally suitable. Ensure an eyewash station and safety shower are available and ready for use.
<b>Advice to Doctor</b>	Treat symptomatically. Subcutaneous injection from high-pressure equipment can leave a small, sometimes bloodless, puncture wounds deep into the extremity. Within 24 hours, there is usually extensive swelling, discolouration and intense pain in the affected part. Requires immediate treatment at a surgical emergency centre, otherwise disfigurement of affected part may occur. Treatment of high pressure wounds may include: 1. Surgical decompression, debridement, and drainage. 2. Broad-spectrum antibiotic and 3. Anti-inflammatory medication.
<b>Other Information</b>	Keep water and mild soap near work site.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Extinguish fire with the following: Use CO2, dry chemical or foam.
<b>Hazards from Combustion Products</b>	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.
<b>Specific Methods</b>	Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.
<b>Specific Hazards</b>	Low hazard
<b>Precautions in connection with Fire</b>	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

<b>Spills &amp; Disposal</b>	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.
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## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	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.
<b>Conditions for Safe Storage</b>	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.
<b>Corrosiveness</b>	Not corrosive

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	<b>Name</b>	<b>STEL</b>	<b>TWA</b>
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# Material Safety Data Sheet

CS: 1.4.93

Page: 3 of 5

Infosafe No™ 5FV8E	Issue Date : February 2010	ISSUED by FUCHS
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	<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	<u>Footnote</u>
	Mineral Oil		5		8 hour day
<b>Other Exposure Information</b>	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). Occupational exposure limits: When an exposure standard has not been established by the National Occupational Health & Safety Commission for a material, a blanket recommendation of 5 mg/m3 for respirable vapours, mists and dusts should be used.				
<b>Engineering Controls</b>	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.				
<b>Respiratory Protection</b>	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.				
<b>Eye Protection</b>	Safety glasses, goggles or faceshield as appropriate.				
<b>Hand Protection</b>	PVC, neoprene or nitrile rubber gloves.				
<b>Footwear</b>	Enclosed footwear.				
<b>Body Protection</b>	Overalls or similar protective apparel.				
<b>Hygiene Measures</b>	Always wash hands before smoking, eating, drinking or using the toilet. If contamination occurs, change clothing. Avoid carrying contaminated rags in pockets or wearing soaked clothing. Discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse.				
<b>Special Protective Measures</b>	Will not burn unless preheated. Isolate from sources of heat, naked flame, or sparks.				

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid
<b>Appearance</b>	Amber liquid
<b>Odour</b>	Mild
<b>Melting Point</b>	Less than 0 °C
<b>Boiling Point</b>	Greater than 300 °C
<b>Solubility in Water</b>	Not soluble
<b>Solubility in Organic Solvents</b>	Soluble in petroleum solvents
<b>pH Value</b>	Not relevant
<b>Vapour Pressure</b>	Less than 0.1 kPa
<b>Vapour Density (Air=1)</b>	Greater than 2 (Air = 1)
<b>Colour</b>	Clear yellow/amber
<b>Density</b>	0.86 - 0.93 kg/L @ 15 °C typical
<b>Flash Point</b>	Greater than 100 °C (PMCC)
<b>Flammability</b>	Combustible liquid C2 according to AS 1940.

# Material Safety Data Sheet

CS: 1.4.93

Page: 4 of 5

Infosafe No™ 5FV8E Issue Date : February 2010 ISSUED by FUCHS

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<b>Flammable Limits - Lower</b>	Approximately 1.5%
<b>Flammable Limits - Upper</b>	Approximately 6.0%
<b>Explosion Properties</b>	Not considered an explosion risk under normal conditions of use
<b>Kinematic Viscosity</b>	Ranges from 9 - 748 mm <sup>2</sup> /s @ 40 °C
<b>Other Information</b>	These physical data and other properties do not constitute a specification

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## 10. STABILITY AND REACTIVITY

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

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	Estimated Oral LD50 (rat): greater than 2000 mg/kg. 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.
<b>Inhalation</b>	Inhalation of mists or aerosols can produce respiratory irritation.
<b>Ingestion</b>	No adverse effects expected however large amounts may cause nausea and vomiting.
<b>Skin</b>	Will have a defatting effect on the skin. Contact with skin may result in irritation.
<b>Eye</b>	May cause watering of eyes.
<b>Chronic Effects</b>	Prolonged or repeated exposure may result in irritation, with the possibility of dermatitis
<b>Reproductive Toxicity</b>	Reproductive toxicity not expected.
<b>Mutagenicity</b>	Mutagenic effects not known.
<b>Carcinogenicity</b>	Product is not a known carcinogen.

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## 12. ECOLOGICAL INFORMATION

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<b>Environ. Protection</b>	Do not allow material to enter drains or waterways.
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## 13. DISPOSAL CONSIDERATIONS

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<b>Disposal Considerations</b>	Dispose of waste according to federal, EPA, state and local regulations.
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## 14. TRANSPORT INFORMATION

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<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. REGULATORY INFORMATION

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<b>Poisons Schedule</b>	Not Scheduled
<b>Packaging &amp; Labelling</b>	No special packaging or labelling requirements.

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## 16. OTHER INFORMATION

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<b>Contact Person/Point</b>	Laboratory Manager +61 (0)3 9300 6400 Research & Development Chemist +61 (0)3 9300 6400 New Zealand Office +64 9 828 3255
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# Material Safety Data Sheet

CS: 1.4.93

Page: 5 of 5

Infosafe No™ 5FV8E

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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

Useful references include the following:

- \* 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
- \* SUSDP, Standard for the Uniform Scheduling of Drugs and Poisons
- \* ADG, Australian Dangerous Goods Code
- \* MSDS of component materials

## Last Change

Supersedes issue date:  
Reason/s for revision:  
...End Of MSDS...

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