1. Identification

GHS Product Identifier
JCB OPTIMUM PERFORMANCE HYDRAULIC FLUID 46

Product Code
4573
JCB Product Codes: 4002/2005C, 4002/2003C
JCB Construction Equipment Australia

Company Name
JCB Construction Equipment Australia

Address
13 Yagine Close,
Perth Airport
WA 6105
Australia

Telephone/Fax Number
Tel: 1300 522 232

Emergency phone number
1300 522 232. After Hours: +61 400 229 218.

Recommended use of the chemical and restrictions on use
Hydraulic oil.

Other Information
This SDS was issued by Fuchs Lubricants (Australasia) Pty. Ltd.

2. Hazard Identification

GHS classification of the substance/mixture
AUSTRALIA
Not classified as hazardous according to Work, Health and Safety Regulations (WHS), Australia.
Not classified as dangerous goods according to the ADG Code.

NEW ZEALAND
Not classified as hazardous according to the Hazardous Substance (Minimum Degree of Hazard) regulations 2001.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mineral oil</td>
<td></td>
<td>&gt;60%</td>
</tr>
<tr>
<td></td>
<td>Other ingredients</td>
<td></td>
<td>To 100%</td>
</tr>
<tr>
<td></td>
<td>determined not to be hazardous</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation
Remove victim from exposure - avoid becoming a casualty. If symptoms persist seek medical attention.

Ingestion
DO NOT induce vomiting. Rinse mouth thoroughly with water. If symptoms develop seek medical attention.

Skin
Wash with plenty of soap and water. If symptoms develop seek medical attention.

Eye contact
Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If symptoms develop seek medical attention.

First Aid Facilities
Normal washroom facilities.

Advice to Doctor
Treat symptomatically.

Most important symptoms/effects, acute and delayed
Refer to section 11.

5. Fire-fighting measures

Suitable extinguishing media
Use CO2, dry chemical or foam.

Unsuitable Extinguishing Media
Water jet.
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Product Name  JCB OPTIMUM PERFORMANCE HYDRAULIC FLUID 46

Not classified as hazardous

Hazard from
Combustion
Products
Combustion products may include oxides of carbon, nitrogen, phosphorous and
sulphur as well as unidentified organic and inorganic compounds

Special Protective
Equipment for fire
fighters
Fire fighters to wear self-contained breathing apparatus if risk of exposure
to vapour or products of combustion.

Specific hazards
from the chemical
No special hazards arising from the use of the product.

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.

Personal Precautions
Use suitable protective equipment (Section 8).

Environmental
Precautions
Do not discharge into the drains/surface waters/groundwater. Do not discharge
into the subsoil/soil.

7. Handling and storage

Precautions for Safe
Handling
Put on appropriate personal protective equipment (see Section 8).  
Workers
should wash hands and face before eating, drinking and smoking.  Keep
containers tightly closed when not in use. Empty containers retain product
residue. Do not reuse container.

Conditions for safe
storage, including
any incompatibilities
Store in a cool, dry, well-ventilated area away from sources of ignition,
strong oxidizing agents and foodstuffs.

8. Exposure controls/personal protection

Exposure Controls, Personal Protection
The following Australian and New Zealand Standards will provide general advice
regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715,  
AS/NZS2210.

Occupational
exposure limit values
No value assigned for this specific material by the National Occupational Health and Safety Commission (Safe Work Australia).

Biological Limit
Values
No biological limits allocated.

Appropriate engineering controls
Maintain concentration below recommended exposure limit.  Good general
ventilation should be sufficient to control worker exposure to airborne contaminants.  If this product contains ingredients with exposure limits, use
process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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.  Reference should be made to Australian/New Zealand Standards AS/NZS 1715/1716.

Eye Protection
Safety glasses, goggles or faceshield as appropriate.

Hand Protection
Impervious gloves, e.g. neoprene or nitrile rubber gloves.

Body Protection
Overalls or similar protective apparel.  Enclosed footwear.

9. Physical and chemical properties

Appearance
Yellow liquid

Odour
Characteristic
Safety Data Sheet

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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour Density (Air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour Point</td>
<td>-34°C/typical</td>
</tr>
<tr>
<td>Density</td>
<td>0.84-0.87 @ 15°C/typical</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;200°C/typical</td>
</tr>
<tr>
<td>Flammability</td>
<td>Combustible</td>
</tr>
<tr>
<td>Flammable Limits - Lower</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammable Limits - Upper</td>
<td>Not determined</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>42-50 cSt @ 40°C/typical</td>
</tr>
<tr>
<td></td>
<td>9.3 cSt @ 100°C/typical</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Reactivity: Reacts with incompatibles.
Chemical Stability: Stable under normal conditions of use and storage.
Conditions to Avoid: Heat and other sources of ignition.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition: Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

11. Toxicological Information

Toxicology Information
Ingestion: No adverse effects expected if swallowed in small doses.
Ingestion of large quantities may cause gastro-intestinal effects.
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.
Inhalation: Contact with skin may result in irritation. Prolonged or repeated skin contact may cause defatting leading to dermatitis.
Eye: May cause slight eye irritation.
Respiratory sensitisation: Not considered to be a respiratory sensitiser.
Skin Sensitisation: Not considered to be a skin sensitiser.
Germ cell mutagenicity: Not considered to be a mutagenic hazard.
Carcinogenicity: Not considered to be a carcinogenic hazard.
Reproductive Toxicity: Not considered to be toxic to reproduction.
STOT—single exposure: Not expected to cause toxicity to a specific target organ.
STOT—repeated exposure: Not expected to cause toxicity to a specific target organ.
Aspiration Hazard: Not considered to be an aspiration hazard.
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.
**Product Name**: JCB OPTIMUM PERFORMANCE HYDRAULIC FLUID 46

**Not classified as hazardous**

12. Ecological information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>No data is available for this product.</th>
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</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>No data is available for this product.</td>
</tr>
<tr>
<td>Mobility</td>
<td>No data is available for this product.</td>
</tr>
<tr>
<td>Bioaccumulative Potential</td>
<td>No data is available for this product.</td>
</tr>
<tr>
<td>Environmental Protection</td>
<td>Do not allow product to enter drains, waterways or sewers.</td>
</tr>
<tr>
<td>Sewage Treatment</td>
<td>No data is available for this product.</td>
</tr>
</tbody>
</table>

13. Disposal considerations

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

14. Transport information

<table>
<thead>
<tr>
<th>Transport Information</th>
<th>Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number (Air Transport, ICAO)</td>
<td>Not regulated for air transport according to International Air Transport Association (IATA) Dangerous Goods Regulations.</td>
</tr>
<tr>
<td>IMDG UN No</td>
<td>Not regulated for sea transport according to International Maritime Dangerous Goods (IMDG).</td>
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</tbody>
</table>

15. Regulatory information

**Poisons Schedule**: Not Scheduled

16. Other Information

<table>
<thead>
<tr>
<th>Date of preparation or last revision of SDS</th>
<th>Issue Date: 28/10/2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature References</td>
<td>Supersedes Issue Date: Not applicable.</td>
</tr>
<tr>
<td></td>
<td>Reason(s) for issue: First issue.</td>
</tr>
<tr>
<td></td>
<td>* Safe Work Australia, Code of Practice for Preparation of Safety Data Sheets for Hazardous Chemicals. [December 2011]</td>
</tr>
<tr>
<td></td>
<td>* Safe Work Australia – Guidance on the Classification of Hazardous Chemicals Under the WHS Regulations. [April 2012]</td>
</tr>
<tr>
<td></td>
<td>* Model Work Health and Safety (WHS) Regulations, 2011</td>
</tr>
<tr>
<td></td>
<td>* Guidance on the Interpretation of Workplace Exposure Standards for Airborne Contaminants, 2013</td>
</tr>
<tr>
<td></td>
<td>In conjunction with Safe Work Australia’s 'Workplace Exposure Standards for Airborne Contaminants'</td>
</tr>
<tr>
<td></td>
<td>* SUSMP, Standard for the Uniform Scheduling of Medicines and Poisons</td>
</tr>
<tr>
<td></td>
<td>* ADG, Australian Dangerous Goods Code</td>
</tr>
<tr>
<td></td>
<td>* IMDG Code, International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td></td>
<td>* IATA Dangerous Goods Regulations, International Air Transport Association</td>
</tr>
</tbody>
</table>

**Contact Person/Point**: 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.
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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.

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

...End Of MSDS...