1. Identification

JCB HYDRAULIC FLUID HP 15

Not classified as hazardous according to Work, Health and Safety Regulations (WHS), Australia.

New Zealand

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


3. Composition/information on ingredients

Mixture containing severely refined base oils and additives.

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZnDTP</td>
<td>4259-15-8</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Alkylated phenol</td>
<td>128-39-2</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Other ingredients</td>
<td></td>
<td>To 100%</td>
</tr>
<tr>
<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 develop seek medical attention.
- **Ingestion**: DO NOT induce vomiting. Rinse mouth thoroughly with water. If symptoms develop seek medical attention.
- **Skin**: Remove contaminated clothing and wash skin thoroughly with 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 persist seek medical attention.
- **First Aid Facilities**: Normal washroom facilities.
- **Advice to Doctor**: Treat symptomatically.
- **Most important symptoms/effects, acute and delayed**: May cause skin and eye irritation.

5. Fire-fighting measures

- **Suitable extinguishing media**: Use CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with...
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Unsuitable Extinguishing Media
suitable tensides added.

Full water jet.

Hazards from Combustion Products
Combustion products may include oxides of carbon 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 arising 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. Prevent formation of aerosols. Do not heat up to temperatures close to the flash point. Keep containers tightly closed when not in use. Empty containers retain product residue. Do not reuse container.

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

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
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
Nitrile butyl rubber gloves.

Body Protection
Overall or similar protective apparel. Enclosed footwear.

9. Physical and chemical properties

Appearance
Yellow liquid
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**Characteristic**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not applicable</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>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>0.86 @ 15°C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>175°C</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>15 mm²/s @ 40°C</td>
</tr>
</tbody>
</table>

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### 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. Strong oxidizing agents. Strong acids. Strong bases.
- **Incompatible Materials:**
  - Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

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### Toxicological Information

- **Toxicity Information:** No toxicology data available for this product.
- **Acute Toxicity - Oral:**
  - Specified substance(s): ZnDTP - LD50 (rat): 4358 mg/kg
  - Ingestion: Not normally considered to be a hazard by ingestion at appropriate usage. Ingestion may cause slight stomach irritation and discomfort.
  - 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.
- **Skin:** Contact with skin may result in irritation.
- **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.
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12. Ecological information

Ecotoxicity

No data is available for this product.
Specified substance(s)
Acute toxicity
Fish:
ZnDTP - LC50 (fish, 96h): 1.1-10 mg/l
Aquatic Invertebrates:
ZnDTP - EC50 (water flea, 48h): 1.1-10 mg/l

Persistence and degradability

No data is available for this product.

Mobility

No data is available for this product.

Bioaccumulative Potential

No data is available for this product.

Environmental Protection

Do not allow product to enter drains, waterways or sewers.

Sewage Treatment

No data is available for this product.

13. Disposal considerations

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

14. Transport information

Transport Information

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).
Not regulated for air transport according to International Air Transport Association (IATA) Dangerous Goods Regulations.
Not regulated for sea transport according to International Maritime Dangerous Goods (IMDG).

15. Regulatory information

Poenis Schedule

Not Scheduled

16. Other Information

Date of preparation or last revision of SDS

Issue Date: 29/12/2014
Supersedes Issue Date: November 2014.
Reason(s) for issue: Review.

* Safe Work Australia, Code of Practice for Preparation of Safety Data Sheets for Hazardous Chemicals. [December 2011]
* Safe Work Australia - Guidance on the Classification of Hazardous Chemicals Under the WHS Regulations. [April 2012]
* Model Work Health and Safety (WHS) Regulations, 2011
* Guidance on the Interpretation of Workplace Exposure Standards for Airborne Contaminants, 2013
In conjunction with Safe Work Australia's 'Workplace Exposure Standards for Airborne Contaminants'.
* 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
* SDS of component materials
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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.

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...