1. Identification of the material and supplier

**Names**

**Product name**: JCB Special Hammer Grease

**ADG**: -

**Company/undertaking identification**

**Manufacturer / Distributor**: JCB Service

World Parts Centre

Waterloo Park

Beamhurst

Staffordshire

England

ST14 5PA

**e-mail address of person responsible for this SDS**

aftermarketproduct.hotline@jcb.com (Mon to Fri 9.00am to 4.00pm UK time)

Communication in English only

**Emergency telephone number (with hours of operation)**

+44 (0)1889 593748 (Mon to Fri 9.00am to 4.00pm UK time)

Communication in English only

**Uses**

**Area of application**: Industrial applications.

**Material uses**: grease

2. Hazards identification

**Classification**: Not regulated.

**Risk phrases**: Not classified.

**Statement of hazardous/dangerous nature**: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

**Mixture**: Yes.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>*</td>
<td>95</td>
</tr>
</tbody>
</table>

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

* CAS Mixture of: 64742-52-5 + 64742-54-7

The mineral oils in the product contain < 3% DMSO extract (IP 346).

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

**First aid measures**

**Inhalation**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
4. First aid measures

**Skin contact**: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Accidental high pressure injection through the skin requires immediate medical attention.

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training.

**Advice to doctor**: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Firefighting measures

**Extinguishing media**

**Suitable**: Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).

**Not suitable**: Do not use water jet.

**Special exposure hazards**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products**: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- sulfur oxides
- phosphorus oxides
- metal oxide/oxides

**Special protective equipment for fire-fighters**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

**Personal precautions**: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions**: Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for cleaning up**

**Small spill**: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill**: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

**Handling**: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
7. Handling and storage

Storage
Store between the following temperatures: 1 to 40°C (33.8 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>ACGIH TLV (United States, 3/2012). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Exposure controls

Engineering measures
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Hands
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

General information

Physical state
Liquid. [Paste.]

Appearance
Smooth grease

Colour
Grey./Black.

Odour
Odourless.

Odour threshold
Not available.

Important health, safety and environmental information

Boiling point
>200°C (>392°F)

Melting point
>200°C (>392°F)
9. Physical and chemical properties

Flash point: Closed cup: >200°C (>392°F) [ASTM D93.]
Relative density: 0.82 to 0.85
Solubility: Insoluble in the following materials: cold water and hot water.

Other information

Decomposition temperature: >200°C (>392°F)
Auto-ignition temperature: >200°C (>392°F)
Flame duration: Not applicable.

10. Stability and reactivity

Chemical stability: The product is stable.
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid: No specific data.
Materials to avoid: No specific data.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Potential acute health effects

Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin contact: Defatting to the skin. May cause skin dryness and irritation.
Eye contact: No known significant effects or critical hazards.

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat - Male, Female</td>
<td>5.53 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Not available.

Potential chronic health effects

Chronic toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>Sub-chronic NOAEL Oral</td>
<td>Rat - Male, Female</td>
<td>≥2000 mg/kg</td>
<td>13 weeks; 5 days per week</td>
</tr>
<tr>
<td></td>
<td>Sub-acute LOAEL Oral</td>
<td>Rat - Male</td>
<td>125 mg/kg</td>
<td>13 weeks; 5 hours per day</td>
</tr>
<tr>
<td></td>
<td>Sub-acute NOAEL Inhalation Vapour</td>
<td>Rat - Male</td>
<td>&gt;980 mg/m³</td>
<td>4 weeks; 5 days per week</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Not available.

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>Skin - Erythema/Eschar</td>
<td>Rabbit</td>
<td>0.17</td>
<td>72 hours</td>
<td>7 days</td>
</tr>
<tr>
<td></td>
<td>Skin - Oedema</td>
<td>Rabbit</td>
<td>0</td>
<td>72 hours</td>
<td>7 days</td>
</tr>
<tr>
<td></td>
<td>Eyes - Iris lesion</td>
<td>Rabbit</td>
<td>0</td>
<td>48 hours</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Eyes - Redness of the conjunctivae</td>
<td>Rabbit</td>
<td>0.33</td>
<td>48 hours</td>
<td>72 hours</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Not available.

Sensitiser

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
11. Toxicological information

### Carcinogenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Route of exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>

**Conclusion/Summary:** Not available.

### Mutagenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Experiment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>474 Mammalian Erythrocyte Micronucleus Test</td>
<td>Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic</td>
<td>Negative</td>
</tr>
</tbody>
</table>

**Conclusion/Summary:** Not available.

### Teratogenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>Negative - Dermal</td>
<td>Mouse - Female</td>
<td>-</td>
<td>78 weeks</td>
</tr>
</tbody>
</table>

**Conclusion/Summary:** Not available.

### Reproductive toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Maternal toxicity</th>
<th>Fertility</th>
<th>Developmental toxin</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>Negative</td>
<td>Negative</td>
<td>Negative</td>
<td>Rat - Male, Female</td>
<td>Oral: 1000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Conclusion/Summary:** Not available.

### Chronic effects

- Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

### Target organs

- Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes.
12. Ecological information

Ecotoxicity: No known significant effects or critical hazards.

Aquatic ecotoxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Aquatic ecotoxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>Acute NEL &gt;100 mg/l Fresh water</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute NEL &gt;10000 mg/l Fresh water</td>
<td>Daphnia - Daphnia Magma</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute NEL ≥100 mg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NEL 10 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>21 days</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Not available.

Other ecological information

Persistence/degradability

| Conclusion/Summary | Not available. |

Aquatic half-life | Photolysis | Biodegradability |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Inherent</td>
<td></td>
</tr>
</tbody>
</table>

Other adverse effects: No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

<table>
<thead>
<tr>
<th>Regulation</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>PG*</th>
<th>Label</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADG</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>ADR</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

PG* : Packing group

15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons
Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances
No listed substance

Australia inventory (AICS) : Not determined.
EU Classification : Not classified.
HCS Classification : Target organ effects

Date of issue/Date of revision : 31-05-2017
Date of previous issue : 07-03-2016
Version : 1.02

16. Other information

Training advice : Ensure operatives are trained to minimise exposures.

History

Date of printing : 31-05-2017
Date of issue/Date of revision : 31-05-2017
Date of previous issue : 07-03-2016
Version : 1.02
Prepared by : Kuwait Petroleum Research & Technology B.V., The Netherlands

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.