SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Trade name or designation of the mixture
Husqvarna Grease Multi Advanced
Registration number
- 
Synonyms
None.
Product code
588 81 48-01 (400g)
Issue date
15-September-2015
Version number
01
Revision date
-
Supersedes date
-

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Lubricating grease.
Uses advised against
Use in accordance with supplier's recommendations.

1.3. Details of the supplier of the safety data sheet
Manufacturer/Supplier
Husqvarna AB
Address
Drottninggatan 2
Telephone
+46 (0)36-14 65 00
Contact person
Accessory Department
e-mail
sds.info@husqvarna.se

1.4. Emergency telephone number
+1-760-476-3961 (Access code 333721)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended
This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary
Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

2.2. Label elements
Label according to Regulation (EC) No. 1272/2008 as amended
Hazard pictograms
None.
Signal word
None.
Hazard statements
The mixture does not meet the criteria for classification.

Precautionary statements
Prevention
Not assigned.
Response
Not assigned.
Storage
Not assigned.
Disposal
Not assigned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
General information

Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes
--- | --- | --- | --- | --- | ---
Highly refined mineral oil (DMSO-extract < 3% IP 346) | > 50 | - | - | - | -
Classification: | - | - | - | - | -

List of abbreviations and symbols that may be used above
DSD: Directive 67/548/EEC.
#: This substance has been assigned Community workplace exposure limit(s).

Composition comments
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation
No specific first aid measures noted. If symptoms develop or persist, seek medical advice.

Skin contact
Wash with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions. If high pressure injection under the skin occurs, always seek medical attention.

Eye contact
Flush eyes immediately with large amounts of water. Remove any contact lenses and open eyelids wide apart. If irritation persists get medical attention.

Ingestion
May cause eye irritation on direct contact. Defatting of the skin.

4.2. Most important symptoms and effects, both acute and delayed
May cause eye irritation on direct contact. Defatting of the skin.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards
No unusual fire or explosion hazards noted. Material will float and can be re-ignited on surface of water.

5.1. Extinguishing media

Suitable extinguishing media
Foam. Dry powder. Carbon dioxide (CO2). Water fog.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

By heating and fire, irritating vapours/gases may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Special fire fighting procedures
Move container from fire area if it can be done without risk. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear protective clothing as described in section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.

For emergency responders
Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers or watercourses. Environmental manager must be informed of all major releases.
6.3. Methods and material for containment and cleaning up

Remove sources of ignition. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.

Small Spills: Wipe up spilled material and place in a suitable container for disposal. Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

Never return spills in original containers for re-use.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid inhalation of oil mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from ignition, flame and heat sources. Store in a cool, dry, well-ventilated place. Store away from incompatible materials.

7.3. Specific end use(s)

Lubricating grease.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values
No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures
Follow standard monitoring procedures.

Derived no-effect level (DNEL)
Not available.

Predicted no effect concentrations (PNECs)
Not available.

8.2. Exposure controls

Provide adequate ventilation and minimise the risk of inhalation of vapours.

Individual protection measures, such as personal protective equipment

General information
Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection
Risk of contact: Wear safety glasses with side shields (or goggles).

Skin protection
Gloves are recommended for prolonged use. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

- Hand protection
Wear appropriate clothing to prevent repeated or prolonged skin contact.

- Other
Respiratory protection
Not normally needed. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment. Seek advice from local supervisor.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

Hygiene measures
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using, do not eat, drink or smoke. Launder contaminated clothing before reuse. Private clothes and working clothes should be kept separately.

Environmental exposure controls
Environmental manager must be informed of all major spillages.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
Smooth.

Physical state
Solid.

Form
Semi-solid.

Colour
Red.

Odour
Hydrocarbon-like.

Odour threshold
Not available.
pH: Not available.
Melting point/freezing point: Not available.
Initial boiling point and boiling range: Not available.
Flash point: > 180.0 °C (> 356.0 °F) ASTM D92
Evaporation rate: Not available.
Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits
- Explosive limit - lower (%): 1%
- Explosive limit – upper (%): 10%

Vape pressure: 0.005 hPa @ 20°C
Vapour density: > 1 Estimated
Relative density: 0.9 @ 15 °C
Solubility(ies): Negligible
Partition coefficient (n-octanol/water): Pow > 6
Auto-ignition temperature: > 320 °C (> 608 °F)
Decomposition temperature: Not available.
Viscosity: 18 mm²/s ASTM D 445 @ 100°C
220 mm²/s ASTM D 445 @ 40 °C
Explosive properties: Not explosive.
Oxidizing properties: Not oxidising.

9.2. Other information
- Density: 900.00 kg/m³ @ 15 °C
- Dropping point: 175 °C (347 °F) IP 396
- VOC (Weight %): 0%

SECTION 10: Stability and reactivity

10.1. Reactivity: The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability: Material is stable under normal conditions.
10.3. Possibility of hazardous reactions: Hazardous polymerisation does not occur.
10.4. Conditions to avoid: Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.
10.5. Incompatible materials: Strong oxidising agents.
10.6. Hazardous decomposition products: By heating and fire, irritating vapours/gases may be formed. Carbon oxides.

SECTION 11: Toxicological information

General information: Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure
- Inhalation: Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.
- Skin contact: Prolonged or repeated contact may dry skin and cause dermatitis.
- Eye contact: Contact with eyes may cause irritation.
- Ingestion: Ingestion may cause irritation and malaise.

Symptoms: May cause eye irritation on direct contact. Defatting of the skin.

11.1. Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Husqvarna Grease Multi Advanced (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td>Dermal</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 5000 mg/kg, (calculated)</td>
</tr>
<tr>
<td>Product</td>
<td>Species</td>
<td>Test results</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td>Oral LD50</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg, (calculated)</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation
Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema/chapping and oil acne.

### Serious eye damage/eye irritation
Direct contact with eyes may cause temporary irritation.

### Respiratory sensitisation
No data available.

### Skin sensitisation
Not a skin sensitizer.

### Germ cell mutagenicity
Not classified.

### Carcinogenicity
Not classified.

### Reproductive toxicity
Not classified.

### Specific target organ toxicity - single exposure
Based on available data, the classification criteria are not met.

### Specific target organ toxicity - repeated exposure
Based on available data, the classification criteria are not met.

### Aspiration hazard
Not classified.

### Mixture versus substance information
Not available.

### Other information
Prolonged or repeated contact with used grease may cause serious skin diseases, such as dermatitis.

### SECTION 12: Ecological information

#### 12.1. Toxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### 12.2. Persistence and degradability
Expected to biodegrade slowly.

#### 12.3. Bioaccumulative potential
The product contains potentially bioaccumulating substances.

### Partition coefficient
n-octanol/water (log Kow)
Not available.

### Bioconcentration factor (BCF)
Not available.

#### 12.4. Mobility in soil
The product adsorbs strongly to soil.

#### Mobility in general
The product is insoluble in water and will spread on the water surface.

#### 12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

#### 12.6. Other adverse effects
No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

### Residual waste
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

### Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

### EU waste code
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

### Disposal methods/information
Dispose in accordance with all applicable regulations. This material and/or its container must be disposed of as hazardous waste.

### SECTION 14: Transport information

#### ADR
Not regulated as dangerous goods.

#### RID
Not regulated as dangerous goods.

#### ADN
Not regulated as dangerous goods.

#### IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not established.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
  Not listed.

Authorisations
- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended
  Not listed.

Restrictions on use
- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended
  Not listed.
- Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended
  Not listed.

Other EU regulations
- Directive 2012/18/EU on major accident hazards involving dangerous substances
  Not listed.
- Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
  Not listed.
- Directive 94/33/EC on the protection of young people at work
  Not listed.

Other regulations
The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations
Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations
- DNEL: Derived No-Effect Level.
- PNEC: Predicted No-Effect Concentration.
- PBT: Persistent, bioaccumulative and toxic.
- vPvB: Very Persistent and very Bioaccumulative.
The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

None.

Follow training instructions when handling this material.

The information in the sheet was written based on the best knowledge and experience currently available.