

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

<b>Trade name or designation of the mixture</b>	Husqvarna Grease Multi-Purpose
<b>Registration number</b>	-
<b>Synonyms</b>	None.
<b>Product code</b>	502 51 27-01 (225g.)
<b>Issue date</b>	18-May-2015
<b>Version number</b>	01
<b>Revision date</b>	-
<b>Supersedes date</b>	-

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

<b>Identified uses</b>	Lubricating grease.
<b>Uses advised against</b>	Use in accordance with supplier's recommendations.

**1.3. Details of the supplier of the safety data sheet**

<b>Manufacturer/Supplier</b>	Husqvarna AB
<b>Address</b>	Drottninggatan 2
<b>Telephone</b>	+46 (0)36-14 65 00
<b>Contact person</b>	Accessory Department
<b>E-mail</b>	sds.info@husqvarna.se
<b>1.4. Emergency telephone number</b>	+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 Directive 67/548/EEC or 1999/45/EC as amended**

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**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**

<b>Physical hazards</b>	Not classified for physical hazards.
<b>Health hazards</b>	Not classified for health hazards.
<b>Environmental hazards</b>	Not classified for hazards to the environment.
<b>Specific hazards</b>	Direct contact with eyes may cause temporary irritation. Prolonged or repeated contact may dry skin and cause irritation. Prolonged and repeated contact with used grease may cause serious skin diseases, such as dermatitis and skin cancer.
<b>Main symptoms</b>	May cause eye irritation on direct contact. Defatting of the skin.

**2.2. Label elements****Label according to Regulation (EC) No. 1272/2008 as amended**

<b>Hazard pictograms</b>	None.
<b>Signal word</b>	None.
<b>Hazard statements</b>	The mixture does not meet the criteria for classification.

**Precautionary statements**

<b>Prevention</b>	Not assigned.
<b>Response</b>	Not assigned.
<b>Storage</b>	Not assigned.
<b>Disposal</b>	Not assigned.

**Supplemental label information** EUH210 - Safety data sheet available on request.

**2.3. Other hazards** Not a PBT or vPvB substance or mixture.

## 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	-	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
2-ethylhexyl zinc dithiophosphate	< 2.5	4259-15-8 224-235-5	-	-	
<b>Classification:</b>	<b>DSD:</b> Xi;R41, N;R51/53				
	<b>CLP:</b> Eye Dam. 1;H318, Aquatic Chronic 2;H411				

#### List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has been assigned Community workplace exposure limit(s).

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

## 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** Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get immediate medical attention.

**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** Provide general supportive measures and treat symptomatically. HIGH PRESSURE SKIN INJECTION: Physician must be familiar with local procedures for treatment of this type of wound; incision, irrigation, removal of all necrotic tissue and open wound dressing.

## 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 (CO<sub>2</sub>). 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.

## 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.

Never return spills in original containers for re-use.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Avoid contact with eyes and prolonged or repeated contact with skin. 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

**Appropriate engineering 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**
- **Hand 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.
  - **Other** Wear appropriate clothing to prevent repeated or prolonged skin contact.
- 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

<b>Appearance</b>	Smooth.
<b>Physical state</b>	Solid.
<b>Form</b>	Semi-solid.
<b>Colour</b>	Yellow, brown.
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 150.0 °C (> 302.0 °F) (based on base oils).
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.

### 9.2. Other information

<b>Density</b>	< 1000.00 kg/m <sup>3</sup> (25°C / 77°F)
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## SECTION 10: Stability and reactivity

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

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
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### Information on likely routes of exposure

<b>Inhalation</b>	Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.
<b>Skin contact</b>	Prolonged or repeated contact may dry skin and cause dermatitis.
<b>Eye contact</b>	Contact with eyes may cause irritation.
<b>Ingestion</b>	Ingestion may cause irritation and malaise.
<b>Symptoms</b>	May cause eye irritation on direct contact. Defatting of the skin.

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	May be harmful in contact with skin.
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<b>Product</b>	<b>Species</b>	<b>Test results</b>
Husqvarna Grease Multi-Purpose (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50		3332 mg/kg, (calculated)

Product	Species	Test results
Oral LD50		5275 mg/kg, (calculated)
Components	Species	Test results
2-ethylhexyl zinc dithiophosphate (CAS 4259-15-8)		
<b>Acute</b>		
Oral LD50	Rat	3100 mg/kg
<b>Skin corrosion/irritation</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.	
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation. The mixture is not classified based on the results of tests carried out on a very similar mixture.	
<b>Respiratory sensitisation</b>	No data available.	
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Not classified.	
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Not classified.	
<b>Mixture versus substance information</b>	Not available.	
<b>Other information</b>	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.

Components	Species	Test results
2-ethylhexyl zinc dithiophosphate (CAS 4259-15-8)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EL50	Daphnia magna 65 - 87 mg/l, 48 hours
Fish	LL50	Oncorhynchus mykiss 4.4 mg/l, 96 hours
<b>12.2. Persistence and degradability</b>	Expected to biodegrade slowly.	
<b>12.3. Bioaccumulative potential</b>	The product contains potentially bioaccumulating substances.	
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.	
<b>Bioconcentration factor (BCF)</b>	Not available.	
<b>12.4. Mobility in soil</b>	The product adsorbs strongly to soil.	
<b>Mobility in general</b>	The product is insoluble in water and will spread on the water surface.	
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.	
<b>12.6. Other adverse effects</b>	No data available.	

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	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).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	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 applicable.

## 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.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

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.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

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.

### References

HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

ESIS (European chemical Substances Information System)

### Information on evaluation method leading to the classification of mixture

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.

### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

### Training information

Follow training instructions when handling this material.

### Disclaimer

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