



# SAFETY DATA SHEET

## Section 1 - Identification

<b>Product identifier</b>	<b>Husqvarna Grease Multi-Purpose</b>
<b>Other means of identification</b>	
<b>Product code</b>	502 51 27-01 (225g.)
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Recommended use</b>	Lubricating grease.
<b>Restrictions on use</b>	Use in accordance with supplier's recommendations.
<b>Details of manufacturer or importer</b>	
<b>Supplier</b>	Husqvarna Australia Pty Ltd
<b>Address</b>	4 Pioneer Avenue, Tuggerah NSW 2252
<b>Country</b>	Australia
<b>Telephone</b>	+61 2 4352 7400
<b>Contact person</b>	Jason Bezzina
<b>E-mail</b>	jason.bezzina@husqvarnagroup.com
<b>Emergency</b>	Contact Poisons Information Centre; phone 13 12 26

## Section 2 - Hazard(s) identification

### Classification of the hazardous chemical

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.

### Label elements, including precautionary statements

<b>Hazard symbol(s)</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement(s)</b>	The mixture does not meet the criteria for classification.
<b>Precautionary statement(s)</b>	
<b>Prevention</b>	Not assigned.
<b>Response</b>	Not assigned.
<b>Storage</b>	Not assigned.
<b>Disposal</b>	Not assigned.

**Supplemental information** Safety data sheet available on request.

**Other hazards which do not result in classification** None known.

## Section 3 - Composition and information on ingredients

### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	< 2.5

**Composition comments** This product is a lithium grease based on mineral oil with additives. The mineral oils in the product contain <3% DMSO extract (IP 346). All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## Section 4 - First aid measures

### Description of necessary first aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Personal protection for first-aid responders</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>Symptoms caused by exposure</b>	Direct contact with eyes may cause temporary irritation.
<b>Medical attention and special treatment</b>	Treat symptomatically.

## Section 5 - Firefighting measures

### Extinguishing media

<b>Suitable extinguishing equipment</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing equipment</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Hazchem code</b>	None.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## Section 6 - Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate personal protective equipment.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Methods and materials for containment and cleaning up</b>	<p>The product is immiscible with water and will spread on the water surface.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>

## Section 7 - Handling and storage

<b>Precautions for safe handling</b>	Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Observe good industrial hygiene practices. Be aware of potential for surfaces to become slippery.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

## Section 8 - Exposure controls and personal protection

<b>Control parameters</b>	Follow standard monitoring procedures.
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## Occupational exposure limits

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (CAS 85940-28-9)	TWA	2 mg/m <sup>3</sup>	Inhalable fraction.
		0.1 mg/m <sup>3</sup>	Respirable fraction.

## Biological limit values

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

## Control banding

Not established.

## Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Individual protection measures, such as personal protective equipment (PPE)

### Eye/face protection

Wear safety glasses with side shields (or goggles).

### Skin protection

#### Hand protection

Wear appropriate chemical resistant gloves.

Glove material: Nitrile rubber.

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

#### Other

Wear suitable protective clothing.

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

### 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.

## Section 9 - Physical and chemical properties

### Physical state

Liquid.

### Form

Semi-solid.

### Colour

No data available.

### Odour

No data available.

### Odour threshold

Not available.

### pH

Material is non soluble in water.

### Melting point/freezing point

Not determined.

### Boiling point and boiling range

Not determined.

### Flash point

> 150 °C (> 302 °F) Closed cup

### Evaporation rate

Not determined.

### Upper/lower explosive limits

#### Explosion limit - lower (%)

Not determined.

#### Explosion limit - upper (%)

Not determined.

### Vapour pressure

Not determined.

### Vapour density

Not determined.

### Relative density

Not determined.

### Solubility

#### Solubility (water)

Insoluble.

### Flammability (solid, gas)

Not applicable.

### Partition coefficient: n-octanol/water

Not applicable, product is a mixture.

### Auto-ignition temperature

Not determined.

### Decomposition temperature

Not determined.

<b>Viscosity</b>	> 20.5 mm <sup>2</sup> /s (40 °C (104 °F))
<b>Particle characteristics</b>	Not applicable, material is a liquid.
<b>Data relevant with regard to physical hazard classes</b>	No relevant additional information available.
<b>Other physical and chemical parameters</b>	
<b>Density</b>	< 1000 kg/m <sup>3</sup> (25 °C (77 °F))

## Section 10 - Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## Section 11 - Toxicological information

### Information on possible routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Early onset symptoms related to exposure</b>	Direct contact with eyes may cause temporary irritation.
<b>Delayed health effects from exposure</b>	Prolonged exposure may cause chronic effects.

### Acute toxicity

Components	Species	Test Results
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (CAS 85940-28-9)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 20000 mg/kg, 24 Hours
<b>Oral</b>		
LD50	Rat	3080 mg/kg

<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory or skin sensitisation</b>	
<b>Respiratory sensitisation</b>	Not a respiratory sensitiser.
<b>Skin sensitisation</b>	This product is not expected to cause skin sensitisation.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Prolonged or repeated contact with used grease may cause serious skin diseases, such as dermatitis.

## Section 12 - Ecological information

<b>Ecotoxicity</b>	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.
<b>Persistence and degradability</b>	The product is not readily biodegradable.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	The product is immiscible with water and will spread on the water surface.
<b>Other adverse effects</b>	Oil spills are generally hazardous to the environment.

## Section 13 - Disposal considerations

<b>Disposal methods</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Residual waste</b>	Dispose 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>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section 14 - Transport information

### ADG

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

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

## Section 15 - Regulatory information

### Safety, health and environmental regulations

**National regulations** This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

#### Australia Medicines & Poisons Schedule 4

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (CAS 85940-28-9)

#### Australia National Pollutant Inventory (NPI): Threshold quantity

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (CAS 85940-28-9) 10 tonnes/yr Threshold Category: 1

#### High Volume Industrial Chemicals (HVIC)

Not listed.

#### Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed.

#### National Pollutant Inventory (NPI) substance reporting list

Not listed.

#### Prohibited Carcinogenic Substances

Not regulated.

#### Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

#### Restricted Carcinogenic Substances

Not regulated.

#### Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

### International regulations

#### Stockholm Convention

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto Protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**Section 16 - Any other relevant information**

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**Revision date** -

**Key abbreviations or acronyms used** LD50: Lethal Dose 50%.

**References** ECHA: European Chemical Agency.

**Disclaimer** Husqvarna AB cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.