



SAFETY DATA SHEET

Section 1 - Identification

Product identifier Husqvarna Grease Bearing & Husqvarna Grease Gun

Other means of identification

Product code 595 01 17-01 (60 ml), 535 56 00-01 (100g)

Recommended use of the chemical and restrictions on use

Recommended use Lubricating grease.

Restrictions on use All other uses.

Details of manufacturer or importer

Supplier Husqvarna Australia Pty Ltd

Address 4 Pioneer Avenue, Tuggerah NSW 2252

Country Australia

Telephone +61 2 4352 7400

Contact person Jason Bezzina

E-mail jason.bezzina@husqvarnagroup.com

Emergency Contact Poisons Information Centre; phone 13 12 26

Section 2 - Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s) None.

Signal word None.

Hazard statement(s) The mixture does not meet the criteria for classification.

Precautionary statement(s)

Prevention Not assigned.

Response Not assigned.

Storage Not assigned.

Disposal Not assigned.

Supplemental information Safety data sheet available on request.

Other hazards which do not result in classification The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals.

Section 3 - Composition and information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Dilithium adipate	18621-94-8	2.5 - <5.0
Polysulphides, di-tert-dodecyl	68425-15-0	0.3 - <1.0
Reaction products of boric acid and lithium hydroxide	-	0.3 - <1.0

Composition comments	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

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

Section 5 - Firefighting measures

Extinguishing media

Suitable extinguishing equipment	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing equipment	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Hazchem code	None.
General fire hazards	No unusual fire or explosion hazards noted.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Wear appropriate personal protective equipment. Keep unnecessary personnel away.
For emergency responders	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. Wear appropriate chemical resistant gloves.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Methods and materials for containment and cleaning up	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. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Section 7 - Handling and storage

Precautions for safe handling	Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

Section 8 - Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

US. ACGIH Threshold Limit Values (TLV)

Product	Type	Value	Form
Oil mist, mineral	TWA	5 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
Polysulphides, di-tert-dodecyl (CAS 68425-15-0)	TWA	5 mg/m3	Respirable fraction.

Product	Type	Value	Form
Oil mist, mineral	TWA	5 mg/m3	Respirable fraction.

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

Control banding Not available.

Engineering controls Good general ventilation 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. Use gloves with breakthrough time of > 480 min minutes. Minimum glove thickness 0.4 mm mm.

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	Paste.
Colour	Blue.
Odour	Characteristic.
Odour threshold	Not determined.
pH	Material is non soluble in water.
Melting point/freezing point	Not determined.
Boiling point and boiling range	Not determined.
Flash point	> 220 °C (> 428 °F) (DIN EN ISO 2592)
Evaporation rate	Not determined.
Upper/lower explosive limits	
Explosion limit - lower (%)	Not determined.
Explosion limit - upper (%)	Not determined.
Vapour pressure	< 0.1 hPa (20 °C (68 °F))
Vapour density	Not determined.
Relative density	Not determined.

Solubility	
Solubility (water)	Insoluble in water.
Flammability (solid, gas)	Not applicable.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	4.5 mPa·s DIN 51810 . (25 °C (77 °F))
Particle characteristics	Not applicable, material is a liquid.
Data relevant with regard to physical hazard classes	No relevant additional information available.
Other physical and chemical parameters	
Density	0.91 g/cm3

Section 10 - Stability and reactivity

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

Section 11 - Toxicological information

Information on possible routes of exposure

Inhalation	When heated, the vapours/fumes given off may cause respiratory tract irritation.
Skin contact	Prolonged skin contact may cause temporary irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Early onset symptoms related to exposure	Direct contact with eyes may cause temporary irritation.
Delayed health effects from exposure	Prolonged exposure may cause chronic effects.

Acute toxicity	Not expected to be acutely toxic.
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Product	Species	Test Results
Husqvarna Grease Bearing & Husqvarna Grease Gun		
<u>Acute</u>		
Dermal		
ATE		> 2000 mg/l (Calculated)
Inhalation		
<i>Vapour</i>		
ATE		> 20 mg/l (Calculated)
<i>Mist</i>		
ATE		> 5 mg/l (Calculated)
Oral		
ATE		> 2000 mg/kg (Calculated)

Components	Species	Test Results
Dilithium adipate (CAS 18621-94-8)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	300 - 2000 mg/kg
Polysulphides, di-tert-dodecyl (CAS 68425-15-0)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg OECD 402
Oral		
LD50	Rat	>= 2500 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitisation		
Respiratory sensitisation	Not a respiratory sensitiser.	
Skin sensitisation	The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
ACGIH Carcinogens		
Highly refined mineral oil (CAS -)	A4 Not classifiable as a human carcinogen.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Highly refined mineral oil (CAS -)	3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Other information	Prolonged or repeated contact with used grease may cause serious skin diseases, such as dermatitis.	

Section 12 - Ecological information

Ecotoxicity	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.
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Components	Species	Test Results
Dilithium adipate (CAS 18621-94-8)		
Aquatic		
<i>Acute</i>		
Algae	EC50	Pseudokirchneriella subcapitata > 23 mg/l, 72 hours
Crustacea	EC50	Daphnia magna > 100 mg/l, 48 hours
Fish	LC50	Cyprinus carpio > 100 mg/l, 96 hours

Components		Species	Test Results
Reaction products of boric acid and lithium hydroxide (CAS -)			
Aquatic			
Acute			
Algae	ErC50	Raphidocelis subcapitata	> 100 mg/l, 72 hours (Read-across)
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 hours (Read-across)
Fish	LC50	Cyprinus carpio	> 100 mg/l, 96 hours (Read-across)

Persistence and degradability Dilithium adipate: Readily biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Polysulphides, di-tert-dodecyl (CAS 68425-15-0) > 12

Mobility in soil No data available for this product.

Other adverse effects No data available.

Section 13 - Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

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 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 No poison schedule number allocated. This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals.

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 listed.

Rotterdam Convention

Not listed.

Kyoto Protocol

Not listed.

Montreal Protocol

Not listed.

Basel Convention

Not listed.

Section 16 - Any other relevant information

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Key abbreviations or acronyms used CAS: Chemical Abstract Service.
EC50: Effective Concentration, 50%.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
LC50: Lethal Concentration, 50%.
LD50: Lethal Dose, 50%.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
TWA: Time Weighted Average.
AICIS: Australian Inventory of Industrial Chemicals.

References ECHA registered substances database
IARC Monographs. Overall Evaluation of Carcinogenicity

Disclaimer Husqvarna 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.