

Infosafe No™ 1CHAM	Issue Date : December 2022	RE-ISSUED by CHEMSUPP
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Product Name **SILICONE GREASE**

Not classified as hazardous

Section 1 - Identification

Product Identifier SILICONE GREASE

Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

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Recommended use of the chemical and restrictions on use Electrical insulating compound; an elastic heat transfer coupling material between semiconductor circuit elements and attached cooling metal parts; used in fire resistant transformers; as a dielectric coolant and in solar energy installations; soft contact lenses; as wound dressing; cosmetics and toiletries; food and related products; coatings; paints; inks; rubber and plastics; polishes; fibres, threads; household, automotive, and institutional products; analytical reagent; corrosion-inhibitor; lubricant; used for lubricating and preserving rubber parts, such as O-rings; moisture sealing, used by the plumbing industry in faucets and seals, as well as dental equipment; used as a temporary sealant and a lubricant for interconnecting ground glass joints, as is typically used in the chemical laboratory.

Other Names	<u>Name</u> SILICONE GREASE High Vacuum LR High vacuum grease, Stopcock grease	<u>Product Code</u> SL072
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Other Information

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture Classified as non-Hazardous according to the 7th Edition Globally Harmonised System of classification and labelling of Chemicals (GHS7) including Work, Health and Safety regulations, Australia.
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion
	Dimethyl polysiloxane based compound with inert fillers	63148-62-9	100 %

Section 4 - First Aid Measures

Inhalation Inhalation hazard is low due to the low vapour pressure. Remove from exposure, rest and keep warm.

Ingestion Rinse mouth thoroughly with water immediately. Seek medical attention in severe cases, or if large amounts ingested.

Skin Wash with plenty of soap and water. If irritation occurs seek medical advice.

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Eye	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

Section 5 - Firefighting Measures

Hazards from Combustion Products	Toxic fumes, including carbon monoxide, carbon dioxide and traces of incompletely burned carbon compounds, formaldehyde, boron products, and silicon oxide.
Specific Methods	Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Specific Hazards Arising from the Chemical	Non-flammable. Combustible. Will burn if involved in a fire but not considered a fire risk. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.
Decomposition Temperature	>300 °C
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

Section 6 - Accidental Release Measures

Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Mop up with absorbent material such as rags, sand or vermiculite.

Section 7 - Handling and Storage

Precautions for Safe Handling	Avoid ingestion, inhalation of vapours or spray mists, or taking internally. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Keep container tightly sealed. Use with adequate ventilation. Wash after handling, especially before eating, drinking or smoking. Exercise good industrial hygiene practice. Keep away from sources of ignition.
Conditions for safe storage, including any incompatibilities	Store in tightly closed containers, in a cool, dry, well-ventilated area. Protected from direct sunlight and moisture. Do not store together with acids, alkalis (caustic solutions), or oxidizing agents. Avoid spillage.
Corrosiveness	Corrosion-inhibitor.
Storage Temperatures	Store at room temperature (15 to 25 °C recommended).

Section 8 - Exposure Controls and Personal Protection

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by SafeWork Australia for this product. There is a blanket limit of 10 mg/m ³ for mists when limits have not otherwise been established.
Engineering Controls	Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted average). Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940-The storage and handling of flammable and combustible liquids and AS 2430-Explosive gas atmospheres for further information concerning ventilation requirements.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In

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Eye and Face Protection	event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
Hand Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Personal Protective Equipment	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
Footwear	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Body Protection	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Hygiene Measures	Clean clothing or protective clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Section 9 - Physical and Chemical Properties

Form	Solid
Appearance	Translucent, colourless, white or light grey paste.
Odour	Odourless.
Decomposition Temperature	>300 °C
Solubility in Water	Immiscible or insoluble.
Solubility in Organic Solvents	Dispersible in aromatic and chlorinated hydrocarbon solvents.
Specific Gravity	1.0 (approx.)
pH	Neutral.
Vapour Pressure	~ 0.1 hPa.
Relative Vapour Density (Air=1)	Heavier than air.
Evaporation Rate	Slower than butyl acetate.
Partition Coefficient: n-octanol/water (log value)	log Pow: 2.6-4.25 (Dimethyl polysiloxane CAS # 9016-00-6).
Flash Point	>200 °C
Flammability	Combustible.
Auto-ignition Temperature	~ 450 °C
Explosion Properties	Product does not present an explosion hazard.
Molecular Weight	6,800 (average) (Dimethylpolysiloxane, CAS#: 63148-62-9)
Other Information	Very low surface tension; extreme water repellency; high lubricity; excellent dielectric properties; resistant to oxidation, weathering and high temperatures; permeable to gases.

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Possibility of Hazardous Reactions	Dimethylpolysiloxanes are practically inert polymers. Can react with strong oxidising agents.

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Conditions to Avoid	Heating (decomposition).
Incompatible Materials	Strong oxidizing agents, strong acids, and strong bases.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide and traces of incompletely burned carbon compounds, silicon oxide, silicon dioxide, formaldehyde and boron products.
Hazardous Polymerization	Will not occur.

Section 11 - Toxicological Information

Ingestion	Low ingestion hazard in normal use. Nontoxic when ingested orally. May irritate the gastric tract causing nausea, vomiting and diarrhoea.
Inhalation	Extremely low volatility. Not an inhalation hazard at ambient temperatures. At elevated temperatures inhalation of product vapours may cause irritation to nose, throat and respiratory system.
Skin	May cause mild irritation in contact with skin. Symptoms may include redness and itchiness. May be harmful if absorbed through the skin.
Eye	May cause irritation. Symptoms may include redness, discomfort, tearing, stinging and blurred vision.
Carcinogenicity	Silica [7631-86-9], amorphous is evaluated in the IARC Monographs (Vol. 68; 1997) as Group 3: Not classifiable as to carcinogenicity to humans. Silicone breast implants is evaluated in the IARC Monographs (Vol. 74; 1999) as Group 3: Not classifiable as to carcinogenicity to humans.
Chronic Effects	Hazardous properties cannot be excluded, but - due to the poor water solubility of the product - are relatively improbable. Repeated ingestion or swallowing large amounts may injure internally.
Other Information	Silicones have a low reactivity. Reactions occur almost exclusively when silicone is injected or implanted. There is considerable evidence that injected silicone may evoke a foreign body granulomatous reaction. After injection, vacuoles have been found in lungs, liver, brain, kidney, spleen and pancreas. Severe reactions to injection include fever, pneumonitis, ARDS, and rarely death. Intraocular injection of silicone oil can cause wide variations in intraocular pressure (hypotony and hypertony), band keratopathy and corneal alterations, emulsifications, and preretinal proliferation.

Section 12 - Ecological Information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and Degradability	Biologically non-degradable.
Environmental Protection	Do not allow to enter waters, waste water, or soil!

Section 13 - Disposal Considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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Section 14 - Transport Information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Environmental Hazards	Biologically non-degradable.

Section 15 - Regulatory Information

Poisons Schedule	Not Scheduled
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Section 16 - Any Other Relevant Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of
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Dangerous Goods by Road and Rail 7th. Ed.'.
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.
Safe Work Australia, 'Hazardous Chemical Information System'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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**Empirical Formula
& Structural
Formula**

(C₂H₆O₂Si)_n (CAS# 63148-62-9)

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