



SAFETY DATA SHEET

1. Identification of Material and Supplier

Product Name: Helmar H4000 Silicone Oil

Recommended Use: Helmar H4000 Silicone Oil is a general purpose food grade lubricant.

Supplier: Helmar Australia Pty Ltd

ABN: 28 003 425 796

Street Address: 54-56 Brisbane Road, Riverstone NSW 2765

Telephone Number: (61+2) 9627 4666

Fax: (61+2) 9627 4424

Emergency Telephone Number: (24 Hours)

In Australia contact a Poison Information Centre Ph.: 13 11 26

In New Zealand Ph.: 0800 764 766

In the USA contact a Poison Control Center Ph.: 1 800 222 1222

2. Hazards Identification

GHS Classification

Not a hazardous substance or mixture.

Signal Word

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

3. Composition/Information on Ingredients

Chemical Entity	CAS Number	Proportion (%)
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Ingredients determined to be non-hazardous		100%
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4. First-Aid Measures

For advice, contact a Poisons Information Centre: In Australia Ph.:13 11 26, In New Zealand Ph.: 0800 764 766, In the USA contact a Poison Control Center Ph.: 1 800-222 1222

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Skin Contact: If skin contact occurs, wash with water and soap as a precaution.

Eye Contact: If in eyes, hold eyelids open, flood eyes with water for at least 15 minutes. Seek immediate medical assistance.

Ingestion: If swallowed do NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed: None known.

Protection of first-aiders: No special precautions are necessary for first aid responders.

Note to Physician: Treat symptomatically and supportively.

5. Fire-Fighting Measures

Hazchem Code: 3YE

Suitable Extinguishing Media

Alcohol-resistant Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media

None known.

Specific hazards during fire fighting: Exposure to combustion products may be a hazard to health.

Hazard combustion products: Carbon oxides, Silicon oxides & formaldehyde.

Special extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment and precautions for Fire-fighters

Fire fighters to wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Soak up spills with inert absorbent material. For large spills, provide dyking or appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in an appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. Handling and Storage

Technical measures

See engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation

Use only with adequate ventilation.

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimise releases to the environment.

Hygiene measures

Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Conditions for safe storage, including any incompatibilities

Store in cool well-ventilated place, out of direct sunlight. Keep in properly labelled containers.

Materials to avoid

Do not store with the following product types: Strong oxidising agents.

8. Exposure Controls/Personal Protection

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering control measures

Processing may form hazardous compounds (see section 10)

Ensure adequate ventilation, especially in confined areas. Minimise workplace exposure concentrations.

Individual protection measures

Overalls, Safety Shoes, Safety goggles.

Eye and face protection

Wear safety goggles.

Skin protection

Wash hands thoroughly with soap and water after use and before breaks. Skin should be washed after contact.

Respiratory Protection

Use with adequate ventilation. No personal respiratory protective equipment normally required.

Thermal hazards

Not applicable.

9. Physical and Chemical Properties

Appearance/ Colour/ Odour: Clear colourless liquid. No odour.

Odour threshold: No data available.

pH: No data available.

Melting point/freezing point (°C): No data available.

Initial boiling point and boiling range (°C): > 65 °C

Flash point (°C): 368.3 °C (closed cup)

Evaporation rate (Butyl acetate = 1): No data available.

Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits: No data available.

Vapour Pressure (mbar @ 20°C): No data available.

Vapour Density (air = 1): No data available.

Relative density (g/ml @ 20°C): 0.97

Solubility: No data available.

Partition coefficient: n-octanol/water: No data available.

Auto-ignition temperature (°C): No data available.

Decomposition temperature (°C): No data available.

Viscosity: 350 cSt.

Specific heat value: No data available.

Saturated vapour concentration (include reference temperatures): No data available.

Release of invisible flammable vapours and gases: No data available.

Particle size (average and range): No data available.

Size distribution: No data available.

Shape and aspect ratio: No data available.

Crystallinity: No data available.

Dustiness: No data available.

Surface area: No data available.

Degree of aggregation or agglomeration, and dispersibility: No data available.

Redox potential: No data available.

Biodurability or biopersistence: No data available.

Surface coating or chemistry (if different to rest of particle): No data available.

Explosive properties: Not explosive.

Oxidising properties: The substance or mixture is not classified as oxidising.

Molecular weight: No data available.

10. Stability and Reactivity

Reactivity: Not classified as a reactivity hazard.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Can react with strong oxidising agents. When heated to temperatures above 160 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released, Adequate ventilation required. Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid: None known.

Incompatible materials: Oxidising agents.

Hazardous decomposition products

Thermal decomposition: Formaldehyde.

11. Toxicological Information

Exposure routes: Inhalation, Skin contact, Ingestion and Eye contact.

Acute toxicity: Not classified based on available information.

Product:

Acute oral toxicity: LD50 (Rat): > 15,400 mg/kg

Assessment: The substance or mixture has no acute oral toxicity.

Remarks: Based on data from similar materials.

Acute dermal toxicity: LD50 (Rabbit) >2,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity.

Remarks: Based on data from similar materials.

Skin corrosion/irritation: Not classified based on available information.

Product:

Species: Rabbit

Result: No skin irritation.

Remarks: Based on data from similar materials.

Serious eye damage/irritation: Not classified based on available information.

Product:

Species: Rabbit

Result: No eye irritation.

Remarks: Based on data from similar materials.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Product:

Assessment: Does not cause sensitisation.

Test Type: Maximisation Test.

Species: Guinea pig.

Remarks: No known sensitising effect. Based on test data.

Chronic toxicity

Germ cell mutagenicity: Not classified based on available information.

Product:

Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)

Result: Negative

Remarks: Based on data from similar materials.

Carcinogenicity: Not classified based on available information.

Product:

Species: Rat

Application Route: Ingestion

Result: Negative

Remarks: Based on data from similar materials.

Carcinogenicity – Assessment: Animal testing did not show any carcinogenic effects.

Reproductive toxicity: Not classified based on available information.

Product:

Effects on fertility:

Species: Rabbit, male

Application route: Ingestion

Symptoms: No effects on fertility

Remarks: Based on test data.

Effects on foetal development:

Test type: Prenatal development toxicity study (teratogenicity)

Species: Rabbit, female.

Application route: Skin contact.

Symptoms: No effects on foetal development.

Remarks: Based on test data.

Reproductive toxicity – Assessment: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Specific Target Organ Toxicity (STOT) – single exposure: Not classified based on available information.

Specific Target Organ Toxicity (STOT) – repeated exposure: Not classified based on available information.

Product:

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100mg/kg bw or less.

Exposure routes: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200mg/kg bw or less.

Repeated does toxicity

Product:

Species: Rat

Application Route: Ingestion

Remarks: Based on test data

Species: Rabbit

Application Route: Skin contact

Remarks: Based on test data

Aspiration hazard: Not classified based on available information.

12. Ecological Information

Ecotoxicity: No data available.

Persistence and degradability: No data available.

Bio-accumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available. Avoid contaminating waterways.

13. Disposal Considerations

Disposal methods

Waste from residues: Dispose of in accordance with local regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as used product.

14. Transport Information

International Regulations

UNRTDG

Not regulated as a dangerous good.

IATA-DGR

Not regulated as a dangerous good.

IMDG-Code

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

Not regulated as a dangerous good.

15. Regulatory Information

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

Prohibition/Licensing Requirements: There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

The components of this product are reported in the following inventories:

KECI: All ingredients listed, exempt or notified.

REACH: All ingredients (pre-)registered or exempt.

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

AICS: All ingredients listed or exempt.

IECSC: All ingredients listed or exempt.

PICCS: All ingredients listed or exempt.

DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

ENCS/ISHL: All components are listed on ENCS/ISHL or exempted from inventory listing.

NZIoC: All ingredients listed or exempt.

16. Other Information

Further information

Sources of key data used to compile the Safety Data Sheet: Internal technical data from raw materials SDS's, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Contact Point: Helmar Australia Pty Ltd

Phone: (61+2) 9627 4666 **Fax:** (61+2) 9627 4424

After hours:

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Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Helmar Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

The information and recommendations set down here in this document are presented in good faith and to the best of Helmar Australia Pty Ltd's knowledge. Helmar Australia Pty Ltd cannot predict or control the conditions of use or handling of this product and each user must review this document in the context of the conditions under which they intend to handle and use this product. It is the responsibility of the user to ensure a proper assessment has been carried out. No representations or warranties, either expressed or implied, or merchantability, fitness for purpose or any other nature are made here under with respect to the product to which this information refers.