



Infosafe No™	1CHQ6	Issue Date : March 2014	RE-ISSUED by CHEMSUPP
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Product Name : **CLOVE OIL**

Classified as hazardous

1. Identification

GHS Product Identifier CLOVE OIL

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address 38 - 50 Bedford Street GILLMAN
SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000
Fax: (08) 8440-2001

Recommended use of the chemical and restrictions on use Medicine (local), flavouring, dentistry, perfumery, confectionery, soaps and laboratory reagent.

Other Names	Name	Product Code
	CLOVE OIL LR	CL032
	Caryophyllus oil	
	Oil of cloves	

Other Information EMERGENCY CONTACT NUMBER: +61 08 8440 2000
Business hours: 8:30am to 5:00pm, Monday to Friday.

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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.

2. Hazard Identification

GHS classification of the substance/mixture Eye Damage/Irritation: Category 2A
Skin Corrosion/Irritation: Category 2
Specific target organ toxicity Category 3 (respiratory tract irritation)

Signal Word (s) WARNING

Hazard Statement (s) H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Pictogram (s) Exclamation mark



Precautionary statement – Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

3. Composition/information on ingredients

Chemical Characterization Information on Composition Liquid

An essential oil distilled from cloves.



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Clove oil	8000-34-8	100 %
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4. First-aid measures

Inhalation	Remove victim to fresh air. Employ artificial respiration if indicated. Seek medical attention in severe cases, or if symptoms develop.
Ingestion	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. Seek immediate medical assistance.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention if irritation develops or persists.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
First Aid Facilities	Maintain eyewash fountain and drench facilities in work area.
Advice to Doctor	Consult Poisons Information Centre.
Other Information	At once, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Specific Methods	Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam.
Specific hazards arising from the chemical	Fire or heat may produce irritating, poisonous and/or corrosive gases.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid inhalation, contact with skin, eyes and clothing.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
Environmental Precautions	Prevent from entering into drains, ditches, rivers or the sea.

7. Handling and storage

Precautions for Safe Handling	Avoid prolonged or repeated contact with skin, eyes and clothing. Avoid breathing vapour, spray or mists. Only use in well-ventilated areas. Keep container tightly closed when not in use.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers closed at all times. Light sensitive.
Storage Regulations	Classified as a C1 (Combustible liquid) for the purpose of storage and handling. Refer Australian Standard AS 1940 - 1993 'The storage and handling of flammable and combustible liquids'.

8. Exposure controls/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 NOHSC Australia for this product. There is a blanket limit of 10 mg/m ³ for dusts or mists when limits have not otherwise been established.
Appropriate 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 event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If



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Eye Protection	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. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
Body Protection	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Liquid
Appearance	Yellow liquid (becomes darker and thicker with age).
Odour	Strong odour of cloves.
Boiling Point	Approx. 250 °C
Solubility in Water	Insoluble.
Solubility in Organic Solvents	Soluble in methanol, diethyl ether and chloroform.
Specific Gravity	1.04 - 1.05 (water = 1)
Volatile Component	100%
Flash Point	115 - 117 °C
Flammability	Combustible.
Other Information	Optically active. Refractive index: 1.531 @ 20 °C

10. Stability and reactivity

Chemical Stability	Stable.
Conditions to Avoid	Exposure to moisture. Exposure to direct sunlight. High temperatures. Incompatibles.
Incompatible Materials	Strong oxidising agents, strong acids and strong bases, ferric chloride, potassium permanganate.
Hazardous Decomposition Products	Oxides of carbon, acrid fumes and smoke.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 2650 mg/kg
Ingestion	May be harmful if swallowed. Causes irritation to mucous membranes in gastrointestinal tract.
Inhalation	May be harmful if inhaled. Causes irritation to the mucous membranes and the upper respiratory tract. Symptoms include coughing, scratchy throat.
Skin	Harmful if absorbed through the skin. Irritating to skin. Symptoms include itching, scaling, reddening or occasionally blistering and dermatitis.
Eye	Harmful when contact eyes. Irritating to eyes. Symptoms include redness, watering and itching. Possible corneal injury.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	Can damage central nervous system and kidneys.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecotoxicity	No ecological data available for this product.
Persistence and degradability	No persistence/degradability data available for this product.
Mobility	No mobility data available for this product.



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13. Disposal considerations

Disposal Considerations Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.

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.

15. Regulatory information

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule S6

16. Other Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons No. 4', Commonwealth of Australia, June 2013.
 Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
 National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.
 'Labelling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia.
 Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids.
 Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
 Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'.
 Worksafe Australia, 'Hazardous Substances Information System, 2005'.
 Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Hazardous Substances (2011)'.
 Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.

Contact Person/Point

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Other Information

Previously labelled as:
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 ...End Of MSDS...

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