



Infosafe No™	1CHDR	Issue Date : September 2017	RE-ISSUED by CHEMSUPP
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Product Name : **GUM ARABIC**

Not classified as hazardous

**1. Identification**

**GHS Product Identifier** GUM ARABIC

**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** Pharmaceuticals, adhesives, inks, textile printing, cosmetics, thickening agent and colloidal stabiliser in confectionery and food products, binding agent in tablets, emulsifier and laboratory reagent.

**Other Names****Name****Product Code**

ACACIA LR  
Gum acacia  
Acacia gum  
Arabic gum

GL024

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

**3. Composition/information on ingredients**

**Chemical Characterization** Solid

**Information on Composition** Believed to be a branched polymer of galactose, rhamnose, arabinose, and glucuronic acid as the calcium, magnesium, and potassium salts with a mol. wt. of approx. 250,000. Moisture content varies from 13-15%.

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Acacia (powder)	9000-01-5	100 %		

**4. First-aid measures**

**Inhalation** Remove from exposure, rest and keep warm. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. If breathing becomes difficult, seek medical attention.

**Ingestion** Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.

**Skin** Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.

**Eye contact** In case of contact with eyes, wash with running water holding eyelids open. Take care not to rinse contaminated water into a non-affected eye. If irritation persists seek medical advice.

**First Aid Facilities** Maintain eyewash fountain and drench facilities in work area.

**Advice to Doctor** Treat symptomatically and supportively.

**Other Information** For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

**5. Fire-fighting measures**



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<b>Hazards from Combustion Products</b>	Carbon monoxide and carbon dioxide.
<b>Specific Methods</b>	Small fire: Use dry chemical, CO <sub>2</sub> , 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.
<b>Specific hazards arising from the chemical</b>	May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.
<b>Precautions in connection with Fire</b>	Wear SCBA and structural firefighter's uniform.

**6. Accidental release measures**

<b>Spills &amp; Disposal</b>	Avoid breathing dust or vapours and contact with skin and eyes.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

**7. Handling and storage**

<b>Precautions for Safe Handling</b>	No specific measures Avoid prolonged or repeated contact with skin and eyes .
<b>Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed containers, in a cool, dry, well-ventilated area away from incompatible substances. Store away from oxidizing agents. Protect against physical damage, direct sunlight and moisture.
<b>Storage Temperatures</b>	Store at room temperature (15 to 25 °C recommended).

**8. Exposure controls/personal protection**

<b>Other Exposure Information</b>	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m <sup>3</sup> for dusts when limits have not otherwise been established.
<b>Appropriate engineering controls</b>	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
<b>Respiratory Protection</b>	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 respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
<b>Personal Protective Equipment</b>	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
<b>Body Protection</b>	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.
<b>Hygiene Measures</b>	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**

<b>Form</b>	Solid
<b>Appearance</b>	Thin flakes, powder, granules, or angular fragments; colour white to yellowish white; mucilaginous consistency.
<b>Odour</b>	Almost odourless.



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<b>Melting Point</b>	Decomposes.
<b>Solubility in Water</b>	Completely soluble in twice its weight of hot and cold water (10 g/l at 20 °C), yielding a viscous solution of mucilage.
<b>Solubility in Organic Solvents</b>	Insoluble in most organic solvents, including alcohol. Soluble in glycerol and in propylene glycol, but prolonged heating (several days) may be necessary for complete solution (about 5%).
<b>Specific Gravity</b>	1.35-1.49 (samples dried @ 100 °C are heavier).
<b>pH</b>	4.1-5.5 (aqueous solution). Slightly acidic.
<b>Vapour Pressure</b>	Negligible.
<b>Evaporation Rate</b>	Negligible.
<b>Viscosity</b>	200 cps (30% solution).
<b>Volatile Component</b>	Negligible.
<b>Flash Point</b>	>93 °C
<b>Flammability</b>	Combustible.
<b>Auto-ignition Temperature</b>	Minimum dust cloud ignition temperature: 500 °C.
<b>Explosion Properties</b>	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration: 0.06 g/l (air) Maximum explosion pressure: 0.8067 MPa.
<b>Molecular Weight</b>	240,000 - 600,000.
<b>Other Information</b>	Taste: Solution of good grades are practically tasteless; poorer quality (dark) grades have unpleasant flavour and odour, probably due to tannic acid. Spectral Properties: Solutions of gum from Acacia verec are levorotatory; other Acacia species are dextrorotatory.

**10. Stability and reactivity**

<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Conditions to Avoid</b>	Heat, ignition sources, dust generation and incompatible materials.
<b>Incompatible Materials</b>	Oxidizing agents, precipitates or jellies result upon addition of solutions of ferric salts, borax, basic lead acetate, alcohol, sodium silicate, gelatin or ammoniated tincture of guaiac.
<b>Hazardous Decomposition Products</b>	Carbon monoxide and carbon dioxide.
<b>Hazardous Polymerization</b>	Will not occur.

**11. Toxicological Information**

<b>Acute Toxicity - Oral</b>	LD50 (rat): >16 g/kg;
<b>Ingestion</b>	Ingested orally, acacia is nontoxic. May be harmful if ingested in large amounts. May cause irritation of the digestive tract. Ingestion may cause allergic reaction in sensitive individuals, with symptoms paralleling those from inhalation exposure. Probable oral lethal dose (human): >15 g/kg.
<b>Inhalation</b>	Dust is irritating to the respiratory tract and lungs. Dust may cause allergic respiratory reaction, with symptoms such as severe asthmatic attacks, watery nose and eyes, cough, wheezing and laboured breathing.
<b>Skin</b>	Causes skin irritation. Dust may cause allergic reaction in sensitive individuals, with eczema, hives, skin lesions, or dermatitis.
<b>Eye</b>	Dust may cause severe irritation, redness and pain.
<b>Carcinogenicity</b>	Not listed in the IARC Monographs.
<b>Chronic Effects</b>	Prolonged or repeated exposure to acacia dust may produce allergic reaction, with symptoms such as asthma, catarrh and irritation of nasal mucous, sinus, throat, respiratory tract and bronchus, dyspnoea, chronic bronchitis, pulmonary congestion and skin lesions. Prolonged or repeated exposure to gum arabic may cause cases of fainting fits. Chronic intake by kidney transplant patients of prednisone tablets containing acacia have resulted in hypersensitivity reactions.

**12. Ecological information**



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<b>Ecological Information</b>	No ecological problems are to be expected when the product is handled and used with due care and attention.
<b>Ecotoxicity</b>	Quantitative data on the ecological effect of this product are not available.

**13. Disposal considerations**

<b>Disposal Considerations</b>	Dispose of according to relevant local, state and federal government regulations.
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**14. Transport information**

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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**15. Regulatory information**

<b>Poisons Schedule</b>	Not Scheduled
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**16. Other Information**

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons No. 15', Commonwealth of Australia, November 2016. 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. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
<b>Contact Person/Point</b>	Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b> All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
<b>Other Information</b>	R36/37/38 Irritating to eyes, respiratory system and skin. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 Wear suitable protective clothing. ...End Of MSDS...

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