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SAFETY DATA SHEET



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FIRE	1
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SECTION 1 PRODUCT IDENTIFICATION

GHS Product Identifier GUM ARABIC

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
ACACIA LR
Gum acacia
Acacia gum
Arabic gum

Other Information Livingstone Int'l 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 Livingstone Int'l 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 Livingstone Int'l 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 IDENTIFICATION

GHS classification of the substance/mixture Eye Damage/Irritation: Category 2A

Signal Word (s) WARNING

Hazard Statement (s) H319 Causes serious eye irritation.

Pictogram (s) Exclamation mark



Precautionary statement – Prevention P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary statement – Disposal P501 Dispose of contents/container according to local, state and federal regulations.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

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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 %		

SECTION 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. Give plenty of water to drink. Never give anything by mouth to an unconscious person. If swallowed, do NOT induce vomiting. Seek medical attention in severe cases.

Skin Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. Seek medical attention in severe cases.

Eye contact 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. Seek medical attention.

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;) or a doctor.

SECTION 5 FIRE FIGHTING MEASURES

Hazards from Combustion Products Carbon monoxide and carbon dioxide.

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. 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.

Specific hazards arising from the chemical

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spills & Disposal Avoid breathing dust or vapours and contact with skin and eyes.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling No specific measures. Avoid prolonged or repeated contact with skin and eyes.

Conditions for safe storage, including any incompatibilities 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. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Storage Temperatures Store at room temperature (15 to 25 °C recommended).

SECTION 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/m³ for dusts when limits have not otherwise been established.

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Appropriate engineering controls	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.
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 respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
Eye 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	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.

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Form	Solid
Appearance	Thin flakes, powder, granules, or angular fragments; colour white to yellowish white; mucilaginous consistency.
Odour	Almost odourless.
Melting Point	Decomposes.
Solubility in Water	Completely soluble in twice its weight of hot and cold water (10 g/l at 20 °C) yielding a viscous solution of mucilage.
Solubility in Organic Solvents	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%).
Specific Gravity	1.35-1.49 (samples dried @ 100 °C are heavier).
pH	4.1-5.5 (aqueous solution). Slightly acidic.
Vapour Pressure	Negligible.
Evaporation Rate	Negligible.
Viscosity	200 cps (30% solution).
Volatile Component	Negligible.
Flash Point	>93 °C
Flammability	Combustible.
Auto-Ignition Temperature	Minimum dust cloud ignition temperature: 500 °C.
Explosion Properties	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.
Molecular Weight	240,000 - 600,000.
Other Information	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 vereck are levorotatory; other Acacia species are dextrorotatory.

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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under ordinary conditions of use and storage.
Conditions to Avoid	Heat, ignition sources, dust generation and incompatible materials.
Incompatible Materials	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.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation	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.
Ingestion	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.
Skin	Causes skin irritation. Dust may cause allergic reaction in sensitive individuals, with eczema, hives, skin lesions, or dermatitis.
Eye	Dust may cause severe irritation, redness and pain.
Chronic Effects	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.
Carcinogenicity	Not listed in the IARC Monographs.
Acute Toxicity - Oral	LD50 (rat): >16 g/kg;
Serious eye damage/irritation	Draize test, rabbit: 36 mg/5 hr, Severe irritation effect.

SECTION 12 ECOLOGICAL INFORMATION

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

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose 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.
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SECTION 15 REGULATORY INFORMATION

Poisons Schedule	Not Scheduled
Hazard Category	Irritant

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SECTION 16 OTHER INFORMATION

Literature References

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 South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances , 1995.
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 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 Substances [NOHSC:2012(1994)] .
 Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] .

User Codes

<u>User Field Title</u>	<u>User Code</u>
CAS No.	9000-01-5
Risk Phrases	36/37/38

Other Information

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