

1. IDENTIFICATION

Product Name	Guar Gum
Other Names	Cyamopsis Gum; Guar Flour; Guar Gum (Cyamopsis Tetragonolobus); Guarani; Gum Cyanopsis
Uses	Stabiliser/thickener. Food applications.
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Guar Gum
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Pty Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	2132A E. Dominguez Street Carson CA 90810 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	No. 8, Block G, Ground Floor, Taipan 2 Jalan PJU 1A/3 Ara Damansara 47301, Petaling Jaya, Selangor, Malaysia	+60-3-7843-6833

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) No Data Available

Globally Harmonised System

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)



Signal Word

None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS*Ingredients*

Chemical Entity	Formula	CAS Number	Proportion
Guar Gum	No Data Available	9000-30-0	100 %

4. FIRST AID MEASURES*Description of necessary measures according to routes of exposure*

Swallowed	Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical advice.
Eye	If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.
Skin	If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.
Inhaled	Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient. Material swells on contact with water.
Medical Conditions Aggravated by Exposure	No information available on medical conditions which are aggravated from exposure to this product.

5. FIRE FIGHTING MEASURES

General Measures	Clear area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow firefighting water to reach waterways, drains or sewers. Store firefighting water for treatment.
Flammability Conditions	Avoid dust generation.
Extinguishing Media	In case of fire, appropriate extinguishing media include Dry agent (carbon dioxide, dry chemical powder) - water MUST NOT be allowed to come into contact with substance, forms a very slippery surface and may cause accidents.
Hazardous Products of Combustion	On burning will emit toxic fumes, including those of oxides of carbon.
Special Fire Fighting Instructions	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. All combustion residues and contaminated water from fire-fighting should be disposed of according to regulations.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
Flash Point	300 °C
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available



6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Avoid accidents, clean up immediately. Increase ventilation. Avoid walking through spilled product as it is slippery when spilt. Use clean, non-sparking tools and equipment. Shut off all possible sources of ignition.
Clean Up Procedures	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled chemical-waste container and hold for safe disposal.
Containment	Stop leak if safe to do so. Isolate the danger area.
Environmental Precautionary Measures	Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.
Evacuation Criteria	Evacuate all unnecessary personnel.
Personal Precautionary Measures	Personnel involved in the clean-up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid handling which leads to dust formation. In common with many organic chemicals, may form flammable dust clouds in air. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Use only in a chemical fume hood.
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Protect from direct sunlight, moisture and static discharges. Store under atmospheric temperature. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
Container	Store in original packaging as approved by manufacturer. The material is packaged in multiwall paper bags with polyethylene lining - 25Kg net.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No exposure standard has been established for this product by the Safe Work Australia (SWA). NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
Exposure Limits	No Data Available
Biological Limits	No information available on biological limit values for this product.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	RESPIRATOR: No respiratory protection normally required (AS1715/1716). EYES: Safety glasses with side shields (AS1336/1337). HANDS: Wear impervious gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).
Work Hygienic Practices	No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Free-flowing Powder



Odour	Slight, Bean-like
Colour	Creamy/White
pH	5 - 6
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	Excellent in water 25°C
Specific Gravity	0.68
Flash Point	300 °C
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	170 °C
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	3000-7000 cps (@ No Data Available)
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	No Data Available
Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning Rate of Solid Materials	No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	No Data Available

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Product should not be open to atmosphere for long since material is susceptible to moisture.
Materials to Avoid	Incompatible with strong oxidising agents, and sources of ignition.
Hazardous Decomposition Products	On burning will emit toxic fumes, including those of oxides of carbon.
Hazardous Polymerisation	Hazardous polymerization will not occur.



11. TOXICOLOGICAL INFORMATION

General Information Oral LD50 Rat: 6770mg/Kg
Carcinogen Category No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity Algae: Nil - the material when mixed with water it will form a paste and remain for 24 hrs, by which time the paste is to be consumed.
Persistence/Degradability The material is biodegradable.
Mobility No information available on mobility for this product.
 Soluble in water.
Environmental Fate Avoid contaminating waterways, drains and sewers.
Bioaccumulation Potential No information available on bioaccumulation for this product.
Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility. The material is an agricultural product and subject to nature's re-cycle effect without causing any harm. As such the material if needed to be disposed, it can be buried deep in soil or dissolved in sea where fish and other living organism will consume the product with no danger to them.
Special Precautions for Land Fill Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport (Australia)
 ADG

Proper Shipping Name GUAR GUM
Class No Data Available
Subsidiary Risk(s) No Data Available
 No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Sea Transport
 IMDG

Proper Shipping Name GUAR GUM
Class No Data Available



Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No

Air Transport

IATA

Proper Shipping Name	GUAR GUM
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
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15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	No Data Available

National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	Not Determined
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Not Determined
Philippines (PICCS)	Not Determined
Switzerland (Giftliste 1)	Not Determined



Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Not Determined

16. OTHER INFORMATION

Related Product Codes

GUGUAR0100, GUGUAR0200, GUGUAR0300, GUGUAR0400, GUGUAR0401, GUGUAR0402, GUGUAR0500, GUGUAR0600, GUGUAR0601, GUGUAR0700, GUGUAR0800, GUGUAR0900, GUGUAR1000, GUGUAR1001, GUGUAR1002, GUGUAR1003, GUGUAR1004, GUGUAR1005, GUGUAR1006, GUGUAR1007, GUGUAR1008, GUGUAR1009, GUGUAR1010, GUGUAR1011, GUGUAR1100, GUGUAR1101, GUGUAR1102, GUGUAR1200, GUGUAR1300, GUGUAR1400, GUGUAR1401, GUGUAR1500, GUGUAR1600, GUGUAR1700, GUGUAR1800, GUGUAR1900, GUGUAR2000, GUGUAR2100, GUGUAR2200, GUGUAR2201, GUGUAR2300, GUGUAR2301, GUGUAR2302, GUGUAR2400, GUGUAR2500, GUGUAR2501, GUGUAR2600, GUGUAR2601, GUGUAR2700, GUGUAR2800, GUGUAR2900, GUGUAR3000, GUGUAR3100, GUGUAR3200, GUGUAR3300, GUGUAR3400, GUGUAR3500, GUGUAR3600, GUGUAR3601, GUGUAR3700, GUGUAR3800, GUGUAR3801, GUGUAR3900, GUGUAR3901, GUGUAR4000, GUGUAR4001, GUGUAR4002, GUGUAR4100, GUGUAR4101, GUGUAR4200, GUGUAR4201, GUGUAR4300, GUGUAR4301, GUGUAR4400, GUGUAR4500, GUGUAR4501, GUGUAR4600, GUGUAR5000, GUGUAR5001, GUGUAR5100, GUGUAR5200, GUGUAR5201, GUGUAR5300, GUGUAR5301, GUGUAR5400, GUGUAR5500, GUGUAR5600, GUGUAR5700, GUGUAR5800, GUGUAR5900, GUGUAR5901, GUGUAR6000, GUGUAR6001, GUGUAR6100, GUGUAR6101, GUGUAR6102, GUGUAR6200, GUGUAR6600, GUGUAR6700, GUGUAR6800, GUGUAR6900, GUGUAR7000, GUGUAR7001, GUGUAR7100, GUGUAR7200, GUGUAR7300, GUGUAR7600, GUGUAR7700, GUGUAR8000, GUGUAR8100, GUGUAR8101, GUGUAR8102, GUGUAR8200, GUGUAR8300, GUGUAR8400, GUGUAR8500, GUGUAR8600, GUGUAR8700, GUGUAR8800, GUGUAR8801, GUGUAR8802, GUGUAR8900, GUGUAR9000, GUGUAR9100, GUGUAR9200, GUGUAR9300, GUGUAR9400, GUGUAR9500, GUGUAR9600, GUGUAR9700, GUGUAR9800, GUGUAR9801, GUGUAR9900, GUGUAR0310, GUGUAR5710, GUGUAR5701, GUGUAR1710, GUGUAR1610, GUGUAR3910, GUGUAR5510, GUGUAR0910, GUGUAR0920, GUGUAR0930, GUGUAR0940, GUGUAR5310, GUGUAR1810, GUGUAR0950, GUGUAR0960, GUGUAR5302, GUGUAR1701, GUGUAR1601, GUGUAR2001, GUGUAR1957, GUGUAR1958, GUGUAR1702, GUGUAR2010, GUGUAR2002, GUGUAR2003, GUGUAR2011

Revision

2

Revision Date

03 Jun 2015

Key/Legend

< Less Than

> Greater Than

AICS Australian Inventory of Chemical Substances**atm** Atmosphere**CAS** Chemical Abstracts Service (Registry Number)**cm²** Square Centimetres**CO₂** Carbon Dioxide**COD** Chemical Oxygen Demand**deg C (°C)** Degrees Celcius**EPA (New Zealand)** Environmental Protection Authority of New Zealand**deg F (°F)** Degrees Farenheit**g** Grams**g/cm³** Grams per Cubic Centimetre**g/l** Grams per Litre**HSNO** Hazardous Substance and New Organism**IDLH** Immediately Dangerous to Life and Health**immiscible** Liquids are insoluable in each other.**inHg** Inch of Mercury**inH₂O** Inch of Water**K** Kelvin**kg** Kilogram**kg/m³** Kilograms per Cubic Metre**lb** Pound**LC50** LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.**LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.**ltr** or **L** Litre**m³** Cubic Metre**mbar** Millibar**mg** Milligram**mg/24H** Milligrams per 24 Hours**mg/kg** Milligrams per Kilogram**mg/m³** Milligrams per Cubic Metre

Misc or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm Millimetre
mmH₂O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Health and Safety Commission
OECD Organisation for Economic Co-operation and Development
Oz Ounce
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight

