



Specification

Product Name: Guar Gum**Product Code:** SPEC0032**Description:**

Our Guar Gum is an extra-fine premium quality powder, which is a natural Gluten free food thickener, stabiliser, emulsifier and texture improver. Guar Gum is a powerful short texture thickener and can be used in cold water or liquids. It is neutral in smell and tasteless. Guar Gum is used to thicken, bind ingredients and reduce water leakage, it can be used in bread and dough for a softening effect. Use in gels, fruit preparations and frozen products to prevent water leakage or to thicken. In ice cream and sorbets to prevent ice crystals from forming. It can also be used in foams to improve stability and texture and can replace starch, syrups and sugars as a low-calorie source thickener. In Vegan and Vegetarian food it can be used as a binder to replace eggs or forms of protein.

Specifications:

PARAMETERS	UNITS	MIN	MAX	TYPICAL VALUE
Einecs	232-536-0			
Molecular weight	50000-8000000			
Description	Off white odorless powder			
PURITY				
Loss on drying (125 2 Hours) C	% by weight	10	12	11.50%
Ash (determined @ 800 C)	% by weight	0.70	1.0	0.85%
Acid Insoluble Matter	% by weight	1.0	3.0	2.05%
Protein (Nx6.25)	% by weight	3.5	5.0	4.25%
Gum Content /Galactomannans	% by weight	80.00	85.00	81.35%
Starch (1:10 solution)	Not Detected			
pH (1% paste)	pH	6.0	7.0	6.50
Heavy Metal	Ppm	-	20	<16
VISCOSITY: - 1 % COLD (25 ° C) 2 min mixing in 1800rpm				
Elapsed Time: Spindle No. 3, RPM 20, Brookfield Viscometer Model DV-E				
15 Min.	mpaes	2700	3100	3200
2 Hours	mpaes	3500	4500	4350
24 Hours	mpaes	3700	4500	4460
GRANULOMETRY				

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Through 60 mesh	%	Pass	Pass	Pass
Through 100 mesh	%	Pass	Pass	Pass
Through 200 mesh	%	90	100	95
MICROBIOLOGY				
Total Plate Count	cfu/gm	1000	5000	1666
Yeast & Moulds Count	cfu/gm	100	500	166
Bacillus Cereus	cfu/gm	Negative	Negative	Negative
Coliform & E coli	cfu/ 10 gm	Negative	Negative	Negative
Salmonella	cfu/ 25 gm	Negative	Negative	Negative

Ingredients:

Guar Gum E412

Dietary Information:

Suitable for Vegans & Vegetarians, Non-GMO, Gluten Free.

Nutritional Information:

Based on typical content/100g: Energy: 762kj/190kcal, Fat: 0.5g, Of which saturates: 0.35g, Carbohydrates: 0g, Of which sugars: 0g, Protein: 4.25g, Salt: <0.1g, Fibre: 83.9g.

Storage:

Store in dry, cool conditions and not in direct sunlight.

Packaging:

Size	EAN
100g	5060341113185
250g	5060341113192
500g	5060341113208
5kg	5056191008474
10kg	5056191008481

Shelf Life:

48 months from production date.

Allergen Declaration

Allergen	Contains (Y/N)
Cereals containing Gluten	N
Crustaceans	N
Eggs	N
Fish	N
Peanuts	N
Soybeans	N
Milk	N
Nuts	N
Celery	N
Mustard	N

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Sesame Seeds	N
Sulphur Dioxide and Sulphites (at concentration of more than 10mg/kg or 10mg/L in terms of Sulphur Dioxide)	N
Lupin	N
Molluscs	N

Material Safety Data Sheet

1: Substance/Preparation and Company Identification:

Product Name: Guar Gum treated and pulverised (Guar Gum Powder)

Chemical Family: Galacto Mannin

CAS Number: 9000-30-0

Supplier: Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN.

Tel: 0044 (0)1246 906247.

E-mail address: <https://specialingredients.co.uk/pages/contact>.

Emergency Telephone Contact: 07701 095864.

2: Hazard Identification:

GHS Classification: May cause respiration irritation – Category 3 May form combustible dust concentration in air.

Signal Word: Warning



May cause allergy, asthma symptoms and /or other breathing difficulties if inhaled. Avoid generating and breathing guar particles. In case of inadequate ventilation wear the appropriate respiratory protection. If inhaled: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical help immediately.

Other hazards – none.

3: Composition and Information on Ingredients:

ITC Classification – 130232.30

CAS No: 9000-30-0

Synonyms: Guar Gum treated and pulverised (Guar Gum Powder)

4: First Aid Measures:

Inhalation – Move person to fresh air, if effects occur consult a physician.

Skin contact – Wash skin with plenty of water. Use a suitable skin lotion. Seek first-aid or medical attention as needed.

Eye contact – Flush eyes thoroughly with water for several minutes. If effects occur, consult a physician,

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preferably an Ophthalmologist.

Ingestion – If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives.

5: Firefighting Measures:

Flammability – Not flammable.

Extinguishing media – Carbon dioxide, dry chemical, foam, water fog.

Special procedures – Wear self-contained breathing apparatus to avoid smoke.

Flash point (c), Method – N.AP.

Auto ignition Temperature – N.AV.

Upper flammable limit (% by vol.) – Not determined.

Lower flammable limit (% by vol.) – 0.04 OZ/CF. Similar to flour or grain dusts.

Explosion Data

Explosion Power – N.AV.

Rate of Burning – N.AV.

Sensitivity to Static Discharge – N.AV

Sensitivity to Impact – N.AV

Unusual Fire and Explosion – Hazardous – Powder has the potential to form explosive mixture with air. Avoid creating dust. Keep away from heat, sparks and open flames. Use spark-proof motors, ventilate to control dust and use other preventative measures.

Hazardous Combustion Products – N.AV.

6: Accidental Release Measures:

Leak/spill – Please note that guar gum becomes very slippery when wet. Sweep up dry and containerise. Reuse if suitable or dispose of to prevent a slippery hazard. Mop area with hot water to remove final traces. Remove all sources of ignition. Test area and repeat if necessary.

7: Handling And Storage:

Precautions for safe handling – Avoid dust cloud formation. Maintain a good personal hygiene.

Condition for Safe Storage including any incompatibilities – Store away from oxidizers, store in a cool, dry location.

Suitable Container – Check all containers are clearly labelled. Check all containers are free from leaks.

Packaging is recommended by manufacturer.

Storage Incompatibility – Guar Gum is stable in dry form. Keep container closed to avoid moisture pick-up. Properly cover container and retest after extended storage to assure quality prior to use.

Package Material Incompatibility – Use hygiene and good packaging material.

8: Exposure Controls/ Personal Protection:

Gloves/Types – Rubber, plastic, leather

Respiratory/Type – Provide individuals with approved dust mask or respirators that are capable of removing aerosol dust.

Eye/Type – Chemical goggles or safety glasses.

Footwear/Type – Appropriate protection.

Clothing/Type – Adequate protective clothes.

Other/Type – Eye bath and safety shower.

Engineering Controls – Provide dust control measures to remove or recover airborne dust. Use spark-proof equipment.

9: Physical and Chemical Properties:

Information on basic physical and chemical properties.

Appearance – Pale white

Physical state – Powder

Odour – Odourless

Odour Threshold – Not available

Melting Point – Not available

Boiling Point - 85°C

Flash Point – Not available

pH – 6.5-7.5

Specific Gravity – Not available

Evaporation Rate – Not available

Flammability – Not available

Upper Explosive – Not available

Lower Explosive – Not available

Vapour Pressure – Not available

Solubility in Water – Soluble

Vapour Density – Not available

Auto Ignition Temp. – Not available

Coefficient of Water – Not available

10: Stability and Reactivity:

Chemical stability – Yes. Stable at normal temperature and condition of storage.

Condition to avoid – Ignition sources, water contact.

Incompatible Materials – Strong Oxidizers.

Hazardous Decomposition Product – None.

Hazardous Polymerization – Will not occur.

11: Toxicological Information:

Information on toxicological effects:

Eye contact – May be irritating.

Skin contact – May cause dryness.

Inhalation – May product respiratory irritation.

Guar Gum is found on the following regulatory list:

Exposure Limit of Material – None established.

LC 50 of Material, Species & Route – Not available.

LD 50 of Material, Species & Route – Not available.

Carcinogenicity of Material – Not established.

Reproductive Effects – Not available.

Irritancy of Material – See Section 4.

Sensitizing Capability of Material – Not available.

Synergistic Material – Not available.

12: Ecological Considerations:

Statement – When released into soil, the material will biodegrade to the maximum extent. When

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released into the water it will dissolve into it and viscous solution/gel.

13: Disposal Considerations:

Legislation addressing waste disposal requirements may differ by country, state or territory. Each user must refer to operating in their area. In some areas, certain waste must be tracked.

14: Transport Information:

Marine Pollutant – No.

Land Transport – Not regulated for transport of dangerous goods.

Air Transport – Not regulated for transport of dangerous goods.

Sea Transport - Not regulated for transport of dangerous goods.

15: Regulatory Information:

OSHA Hazards – No known hazards.

CAS # - 900-30-0

16: Other Information:

The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control. We do not accept any liability whatsoever, however arising, which results directly or indirectly from the use of the product.