



Specification

Product Name: Gellan Gum High Acyl
Product Code: SPEC0029
CAS Number: 71010-52-1

Description:

Our Gellan Gum is a premium quality refined powder. A multifunctional gelling agent for use in foods and personal care applications. Gellan Gum is ideal for a variety of gelling, texturizing, stabilizing and film-forming applications. It is recommended for mixes and high solids applications.

Specifications:

High Acyl Gellan Gum	
Appearance	Off-White, Tan or Yellowish Fine Powder
Gellan Gum Content	85.0%-108.0%
*Assay / Purity (as CO ₂ content on dry basis)	3.3%-6.8%
*Identification	PASS
*Suspension Test	PASS
*Gel strength	≥400g/cm ²
*Viscosity (0.1%)	/
*Viscosity (0.5%)	≥4000cps
Loss on drying	≤15.0%
Particle Size	60 Mesh Pass ≥95%
Ash	≤15%
pH(0.5% Solution)	5.0—7.5
Total Bacterium Account	≤10000CFU/g
Coliforms	≤30MPN/100g
Yeast and Mould	≤400CFU/g
Salmonella	0/10g
E. Coli.	0/5g
Soya Trace	≤2.5ppm
Nitrogen	≤3.0%
Isopropyl Alcohol	≤750ppm
Residue of Ethanol	≤500ppm
Heavy Metals	≤20mg/kg
Mercury	≤1mg/kg
Arsenic	≤2mg/kg
Cadmium	≤1mg/kg
Metal Detection Limits	Ferrous:1.5mm;NON-Ferrous:2.0mm;S/Steel:2.5mm.

**Ingredients:**

Gellan Gum (E418)

Dietary Information:

Suitable for Vegans and Vegetarians, Non-GMO, Gluten Free, Non-Irradiated.

Nutritional Information:

Based on typical content/100g: Energy: 1494kj/357kcal, Fats: 1.04g, Carbohydrates: 73.4g, Of which sugars: 0.0g, Protein: 12.2g, Salt: 0.2g, Fibre: 0.7g.

Storage:

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

Packaging:

Size	EAN
50g	5060341112898
100g	5060341112904
250g	5060341112911
500g	5060341112928
5kg	5056191008023
10kg	5056191008030

Shelf Life:

36 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
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:

1.1 Product Identification

Product Name: Gellan Gum

CAS-No: 71010-52-1

1.2 Uses of the substance

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the manufacture and INEC Member

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:

2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label Elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

None

3. Composition / Information on ingredients

3.1 Classification of the Substance or Mixture

Synonyms: Agar substitute gelling agent, Gel Gum

Molecular Weight: 1.000 kg/mol

4: First Aid Measures:

4.1 Description of First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Diarrhoea, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

www.specialingredients.co.uk

No data available

5: Firefighting Measures:

5.1 Extinguishing Media

Suitable extinguishing means: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture.

Nature of decomposition products not known.

5.3 Advice for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

No data available

6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust.

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7: Handling And Storage:

7.1 Precaution for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including possible incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic

7.3 Specific end uses

No data available

8: Exposure Controls/ Personal Protection:

8.1 Control parameters

Components with workplace controls

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9: Physical and Chemical Properties:

9.1: Information on basic physical and chemical properties

Appearance/colour: Form: solid / powder

Odour: no data available

Odour Threshold: no data available

pH: 5-7.5

Melting point/freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: no data available

Evaporation rate: no data available

Flammability (solid, gas): no data available

Upper/lower flammability or explosive levels: no data available

Vapour pressure: no data available

Vapour density: no data available

Relative density: no data available

Water solubility: soluble

Partition coefficient: n-octanol/water: no data available

Autoignition temperature: no data available

Decomposition temperature: no data available

Oxidizing properties: no data available.

9.2: Information on basic physical and chemical properties

No data available

10: Stability and Reactivity:

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

11: Toxicological Information:**11.1 Information on toxicological effects****Acute toxicity**

LD50 Oral - rat - 5000 mg/kg

LC50 Inhalation - rat - 4 h - 6 mg/l

Skin corrosion/irritation

Skin - rabbit - No skin irritation

Serious eye damage/eye irritation

Eyes - rabbit - No eye irritation

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion - May be harmful if swallowed.

Skin - May be harmful if absorbed through skin. May cause skin irritation.

Eyes - May cause eye irritation.

Signs and Symptoms of Exposure

Diarrhoea, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: Not available

12: Ecological Considerations:**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13: Disposal considerations**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14: Transport Information:**14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

14.6 Special precautions for user

No data available

15: Regulatory Information:

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

No data available

16: Other Information:

According to Regulation (EC) No. 1907/2006

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.