



Specification

Product Name: Gellan Gum Low Acyl

Product Code: SPEC0028

Description:

Gellan Gum is a hydrocolloid produced by the microorganism *Sphingomonas elodea*. Gellan Gum is manufactured by fermentation from a carbohydrate source (glucose). Deacylation is carried out by treating the product with alkali. Low Acyl Gellan Gum is a perfect stabilising agent and gelling agent for foods, beverages or personal care products which needs very high transparency and easy solubility. Appearance of Low Acyl Gellan Gum is white fine powder.

Specifications:

Items	Standard
Appearance	White Powder
Gellan Gum content	85.0% - 108.0%
Loss on drying	≤15.0%
Lead	≤2.0mg/kg
Particle size	60 Mesh ≥95%
Transparency	≥75%
Gel. Strength	≥900g/cm ²
Ash	≤15%
PH)0.5% Solution)	5.0-7.5
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	≤750ppm
Assay / Purity (as CO ₂ content on dry basis)	3.3%-6.8%
Molecular Weight	Approx 500000
Heavy Metals	≤20mg/kg
Mercury	≤1mg/kg
Arsenic	≤2mg/kg

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Cadmium	≤1mg/kg Ferrous:1.5mm
Metal Detection Limits	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: 1190kj/285kcal, Fats: 0.0g, Carbohydrates: 85g, Of which sugars: 0.0g, Protein: 0.0g, Salt: 0.0g, Fibre: 85g.

Storage:

Store in dry, cool conditions and not in direct sunlight. Use within 6 months of opening.

Packaging:

50g, 100g, 250g, 500g, 5kg, 10kg.

Shelf Life:

24 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: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers

Product Name: Gellan Gum

CAS-No: 71010-52-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: Laboratory Chemicals, manufacture of substances.

1.3 Details of the supplier of the safety data sheet

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

Tel: 0044 (0)1246 906247.

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

1.4 Emergency Telephone Number

Emergency Phone: 07701 095864.

2: HAZARDS 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 EU directives or respective national laws.

2.3 Other hazards

None

3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: Agar substitute gelling agent
Gel gum

Molecular Weight: 1.000kg/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, get artificial respiration. Consult a

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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

No data available.

5: FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

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 Advise for firefighters

Wear self-contained breathing apparatus for firefighting 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 formations. 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 Precautions 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 and incompatibilities

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

Hygroscopic

7.3 Specific and uses

No data available.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

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 dust 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

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a)	Appearance	Form: solid / powder
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	5-7.5
e)	Melting point / freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	Soluble
o)	Partition coefficient: n-octanol water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing 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

Avoid moisture

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products – no data available

11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral – rat – 50000 mg/kg

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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 probable, 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 INFORMATION

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**

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

14.5 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

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No data available

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.