



Specification

Product Name: Carrageenan Iota

Product Code: SPEC0008

Description:

Our Carrageenan Iota is a premium quality powder of European origin. It can be used to make soft elastic gels that are both freeze/thaw stable. It makes crystal clear gels and glazes and is perfect for topping mousses, cakes and flans. Carrageenan Iota gel strengthens in the presence of calcium, making it perfect for use in milk and dairy-based recipes, such as instant Crème Brûlée. Suitable for Vegans, Vegetarians & Ovo-Lacto Vegetarians, Non-GMO, Gluten Free, Non-Irradiated.

Properties:

Appearance	White to beige colour powder
Application	This product is developed for water applications.
Typical Dosage	0.2-3%
Solubility	Dispersible in cold and totally soluble over 70°C, Insoluble in vegetable oils, minerals and organic solvents.
Gelling	It occurs when the solution becomes cold. In an acid medium the degradation increases with the temperature and the heating time. It is stable in a neutral or alkali medium.

Characteristics:

		Min	Max
Consistency of an Elastic gel in Presence of NaCl	Bloom	50,00	70,00
Gel strength in milk	Milk reactivity	20,00	30,00

pH measurement	8-11 (1% at 20°C)
Particle Size	98% gum below 250 microns (60 US mesh DIN 24).



As (ppm)	< 3,00
Pb (ppm)	< 5,00
Hg (ppm)	< 1,00
Cd (ppm)	< 2,00
Total plate count (cfu/g)	< 5.000,00
Mould and Yeast (cfu/g)	< 300,00
E.Coli (Detection in 5g)	Not detected
Salmonella (Detection in 25g)	Not detected
Loss on drying (%)	< 12,00

Ingredients:

Carrageenan Iota (E407).

Dietary Information:

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

Nutritional Information:

Based on typical content/100g: Energy: 794.3kj/192.4kcal, Fat: 0.1g, Of which saturates: 0g, Carbohydrate: 24.8g, Of which sugars: 24.7g, Salt: 0.8g, Fibre: 46.5g.

Storage:

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

Packaging:

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

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

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Lupin	N
Molluscs	N

Material Safety Data Sheet

1: Identification of the substance/mixture and of the company/undertaking:

1.1 – Product identifier:

Commercial name: Carrageenan Iota, DOCID: 820723, CAS number: 9000-07-1, EINECS number: 232-524-2.

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

Recommended use: Food and pharma applications, Uses advised against: Different uses that recommended.

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.

1.4 – Emergency telephone number:

Emergency Telephone Contact: 07701 095864.
<https://specialingredients.co.uk/pages/contact>

2: Hazards identification:

2.1 – Classification of the substance or mixture:

The product is not classified as dangerous according to Regulation (EU) No 1272/2008.

2.2 – Label Elements:

The product is not classified as dangerous according to Regulation (EU) No 1272/2008, It contains carrageenan.

2.3 – Other hazards:

In normal conditions of use, the product do not have any negative effect for health and Environment, there is not available information regarding product's PBT and mPmB.

3: Composition/ Information on ingredients:

3.1 – Substances:

CAS number: 9000-07-1, Denomination as per num.-CAS: Carrageenan, EINECS number: 232-524-2.

3.2 – Mixtures:

Carrageenan-based mixtures with other hydrocolloids and other additives (sugars and salts), For detailed information, check product technical data sheet.

4: First Aid Measures:

4.1 – Description of first aid measures:

After inhalation: Supply fresh air, Avoid skin contact: Wash with water and soap, After eye contact: Wash with water, After intake: Consult the doctor.

4.2 – Most important symptoms and effects, both acute and delayed:

There are not known acute or delayed effects from product exposure.

4.3 – Indication of any immediate medical attention and special treatment needed:

In cases of doubt, or when symptoms persist, seek medical attention.

5: Firefighting Measures:

5.1 - Extinguishing media:

Extinguishing powder or CO₂, in case of severe fires also alcohol resistant foam and water spray, Do not use for direct water jet extinguisher.

5.2 – Special hazards arising from the substance of mixture:

When exposed to open flame or extremely high heat, carrageenan will char and eventually disintegrate with emission of smoke, leaving only residual ash.

5.3 – Advice for fire-fighters:

Depending on the magnitude of the fire, it may be necessary to wear protective clothing, self-contained breathing apparatus, gloves, goggles or face masks and boots.

6: Accidental Release Measures:

6.1 - Personal precautions, Protective equipment and emergency procedures:

Exposure control and PPE measurements.

6.2 – Environmental Precautions:

Product is not classified as dangerous for the environment, avoid as much as possible any spillage.

6.3 – Methods and material for containment and cleaning up:

Eliminate with an absorbent material.

6.4 – Reference to other sections:

Exposition control and PPE, please check SECTION 8, Waste disposal, check SECTION 13.

7: Handling and Storage:

7.1 – Precautions for safe handling:

Smoking, eating and drinking is forbidden in the application area, Comply with legislation on food safety and health and safety at work.

7.2 – Conditions for safe storage, including any incompatibilities:

Product does not require special storage conditions, store cool and dry in unopened bags.

7.3 – Specific end use(s):

Not available.

8: Exposure Controls/Personal Protection:**8.1 – Control parameters:**

It does not contain substances with occupational exposure limit values.

8.2 – Exposure control:

Good industrial Hygiene practices, Personal protective equipment: working clothing and footwear, self-filtering particle respirator, gloves are not required.

9: Physical and Chemical Properties:**9.1 – Information on basic physical and chemical properties:**

Shape: Powder, Colour: Beige, Odour: Inodorous, State modification: Value/ sector unit method, melting point: Undetermined, Boiling point: Undetermined, Ignition point: Undetermined, Blasting temperature: Undetermined, Explosion danger: Undetermined, Steam pressure: Undetermined, Density: Undetermined, Apparent density: 700Kg/m³, pH value: 8-11.

9.1 – Other information:

Not available.

10: Stability and Reactivity:**10.1 – Reactivity:**

Undetermined.

10.2 - Chemical stability:

Stable under recommended storage conditions.

10.3 – Possibility of hazardous reactions:

Undetermined.

10.4 – Conditions to avoid:

High temperatures at low pH.

10.5 – Incompatible materials:

Undetermined.

10.6 – Hazardous decomposition products:

Undetermined.

11: Toxicological Information:**11.1 – Information on toxicological effects:**

Acute toxicity: Non-conclusive data for classification, Skin corrosion or irritation: Non-conclusive data for classification, Serious eye damage or eye irritation: Non-conclusive data for classification, Respiratory or skin sensitization: Non-conclusive data for classification, Germ cell mutagenicity: Non-conclusive data for classification, Carcinogenicity: Non-conclusive data for classification, Toxicity to reproduction: Non-conclusive data for classification, Specific target organ toxicity (STOT) – single exposure- Non-conclusive data for classification, Specific target organ toxicity (STOT) – repeated exposure – Non-conclusive data for classification, Aspiration hazard: Non-conclusive data for classification.

12: Ecological Information:**12.1 – Toxicity:**

Carrageenan is natural source (seaweed) isolate, and should not have any negative effect over the environment.

12.2 – Persistence and degradability:

Not available information on the persistence and degradability of the product.

12.3 – Bioaccumulative potential:

Bioaccumulation is improbable.

12.4 – Mobility in soil:

Not available information on mobility in soil.

12.5 – Results of PBT and vPvB assessment:

Not available information on PBT and vPvB assessment for the product.

12.6 – Other adverse effects:

Not available information on other adverse effects for environment.

13: Disposal Considerations:**13.1 – Waste treatment methods:**

Waste and empty containers must be handled and disposed according to current legislation, Follow the provisions of Directive 2008/98 / EC with regard to waste management.

14: Transport Information:

It is not a dangerous material, In case of accident and product spillage, act according to section 6.

14.1 – UN number:

Not applicable.

14.2 – UN proper shipping name:

ADR/RID: Not dangerous goods, IMDG: Not dangerous goods, ICAO/IATA: Not dangerous goods.

14.3 – Transport hazard class(es):

Not applicable.

14.4 – Packing group:

Not applicable.

14.5 – Environmental hazards:

Not applicable.

14.6 – Special precautions for user:

Not applicable.

14.7 – Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Not applicable.

15: Regulatory Information:**15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This material safety data sheet complies with the requirements of Regulation (CE) N° 1907/2006.

15.2 – Chemical safety assessment:

A chemical safety assessment of the product has not been carried out.

16: Other Information:

The above data are based per our present knowledge but they do not constitute any guarantee of qualities of the product and do not generate any contractual judicial relationship.

The information contained herein is to the best of our knowledge, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability whatsoever, however arising, which results directly or indirectly from the use of the product.