



Specification

Product Name: Sodium Alginate

Product Code: SPEC0052

Description:

Sodium Alginate is an extract of seaweed, used by molecular chefs for the spherification process. It forms a gel in the presence of calcium ions. Sodium Alginate is a gelling agent that dilutes when cold with strong agitation. It can be used to create soft, firm, ambient and heat-resistant gels and to produce foams. Sodium Alginate is also commonly used as a thickener, emulsifier and texture improver. Suitable for Vegans, Vegetarians & Ovo- Lacto Vegetarians, Non-GMO, Gluten-free, Non-Irradiated.

Properties:

Appearance	White to beige colour powder
Application	This product is specifically developed for plant-based dairy analogues.
Typical Dosage	0.2-0.8%
Solubility	This product is soluble in cold and hot. Insoluble in vegetable oils, minerals and organic solvents.
Gelling	This product forms gels in cold water and milk if it is combined with a calcium source.

Characteristics:

		Min	Max
Water viscosity measurement of an alginate	Viscosity	300,00	400,00

pH measurement	6.5-9.5 (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)	< 1,00
Total plate count (cfu/g)	< 5.000,00

www.specialingredients.co.uk



Mould and Yeast (cfu/g)	< 500,00
E.Coli (Detection in 5g)	Not detected
Salmonella (Detection in 25g)	Not detected
Loss on drying (%)	< 15,00

Ingredients:

Sodium Alginate (E401).

Dietary Information:

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

Nutritional Information:

Based on typical content/100g: Energy: 825.6kj/201.6kCal, Fat: 0g, Carbohydrates: 19.2g, Of which sugars: 19.1g, Protein: 0g, Salt: 0g.

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.

Country of Origin:

United Kingdom.

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: Chemical Product information:

Product name: Sodium alginate, Molecular formula: $C^5H^7O^4COONa$, Molecular weight: 216, Chemical name: Sodium alginate, Form yellowish or white off grain powder, Colour Yellowish or white, Odor: Odourless, CAS nr.: 9005-38-3, ECC Nr.: N/a, EINECS Nr.: N/a, UN Nr.: N/a, Supplier: Company: Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN. Tel: 0044 (0)1246 906247. Emergency Telephone Contact: 07701 095864.
<https://specialingredients.co.uk/pages/contact>

2: Composition And Information on Ingredients:

Component	Symbol (Cas no.)	Content	R. Phrases
Alginic Acid Sodium Salt	9005-38-3	99.7%	
Calcium	7440-07-2	0.3%	
Moisture (Water)	-		

3: Hazards Identification:

No Distinct hazard to health identified. More important dangers for man: None, Dangers for the environment: None, Physical chemical dangers: None.

4: First Aid Measures:

Skin: Wash exposed skin with water, Eyes: Flash eyes with water, Inhalation: Remove from area to fresh air, Ingestion: No harmful side effect.

5: Firefighting Measures:

Extinguishing media: To be used: Water, Water spray, dry powder, foam, etc, Don't use: None, Measures of personal protection: use personal protective equipment, Environmental cautions: No special environmental precautions required, Ex: Prevent the contamination of the floor and of beds of water.

6: Accidental Release Measures:

Personal cautions: Cleaning methods: Ex: Pick up for sweeping or aspiration, avoiding the powder formation, Transport to a property labelled deposit that will be closed and sealed until the recovery or elimination of the product, Environmental cautions: Prevent the contamination of the floor and of beds of water.

7: Handling and Storage:

Handling: Storage: Technical protective measures: Keep containers lightly closed in a cool dry place, protected from light, Fire and explosion protection: Keep tightly closed in a dry and cool place, prevent fires.

8: Exposure Controls/Personal Protection:

STLE:TWA: Personal Protective Equipment: N/a, Respiratory protection: N/a, Protective gloves: N/a, Eye Protection, Industrial hygiene.

9: Physical and Chemical Properties:

Melting point: N/A, Density: N/A, Bulk Density: N/A, Water solubility: N/A, Other solubility: N/A, PH-value (at 10g/ 1 water, 20°C): 6.0-7.5, Flash Point: N/A, Ignition temperature: N/A.

10: Stability and Reactivity:

Conditions to avoid: Avoid dust information, Take precautionary measures against static discharge, Products to avoid: None, Incompatible with strong bases and oxidizing agents, Thermal decomposition: N/A, Hazardous decomposition products: None, Hazardous reactions: None.

11: Toxicological Information:

Contact with the skin: N/A, Contact with the eyes: N/A, Inhalation: N/A, Ingestion: N/A, Sharp toxicity: N/A, Effects for chronic exhibition: N/A, Sensitization: N/A, Other data: Health injuries are not known under normal use.

12: Ecological Information:

Mobility: Smoothly, Bioaccumulation: None.

13: Disposal Considerations:

Product: Dispose of in compliance with all state and local laws and regulations.

14: Transport Information:

Transport: Not classified as dangerous in the meaning of transport regulations, Should be kept in an airtight container in storage transport to prevent rain sum poison, GGVSee / IMDG code: 8198, UN Nr: N/A, ICAO /IATA-DGR: N/A, GGVE / GGVS: N/A, RID / ADR: N/A, ADNRR: N/A.

15: Regulatory Information:

Symbol: R phrases: S phrases.

16: Other Information:

Food grade/industrial grade/Pharma grade.

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.