



Specification

Product Name: Isomalt Powder

Product Code: SPEC0036

Description:

Isomalt is a type of sugar alcohol extracted from sugar and is only slightly over 2 calories per gram. It is odourless and very soluble. The solubility of Isomalt is 24g in 100g of solution which increases at higher temperatures. A great advantage of Isomalt is it absorbs no moisture at a temperature of 25°C and relative humidity of 85%. Hygroscopicity is lower than other sugar alcohols and sugar itself which makes Isomalt products very stable when stored. It has a high heat resistance and will not melt until it reaches 145°C and its chemical structure is not altered at normal cooking temperatures. Products made with Isomalt develop their full flavour enabling the user to make high-boiled products with delicate flavours and aromas. Unlike other sugar alcohol's Isomalt has no undesired cooling effect and can be used with any flavour. It is less sweet than sugar, with a sweetening power of approx. 60%, with no compromise to the natural flavour of sugar.

Properties:

PHYSICAL & CHEMICAL PROPERTIES

	Min	Max	Typical	Unit	Method
Moisture		2		%	50°C
GPM	43	57		%	on d.b.
GPS	43	57		%	on d.b.
GPM + GPS	98			%	on d.b.
Mannitol		0.5		w%w on ds	BSCH036
D-sorbitol		0.5		w%w on ds	BSCH036
Particle size		20%<100		µm	BSCH103
Particle size		10%>600		µm	BSCH103
Reducing sugars		0.3		w%w on ds	BSCH033
SO ₂		10		ppm	BSCH213
Nickel		1		ppm	AAS
pH			6		/

MICROBIOLOGICAL PROPERTIES

	Max	Typical	Unit	Method
Total mesophylic count	200		/g	/
Yeasts	20		/g	/
Moulds	20		/g	/
Salmonella	neg.		25/g	ISO 6579

**Ingredients:**

Isomalt (E953)

Dietary Information:

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

Nutritional Information:

Based on typical content/100g: Energy: 990kj/238kCal, Fat: 0g, Carbohydrate: 99g, Of which sugars: 0g, Protein: 0g, Salt: 0.01g.

Storage: Store in dry, cool conditions and not in direct sunlight.**Packaging:**

Size	EAN
250g	5060341117176
500g	5060341117183
1kg	5060341117190
5kg	5056191008443
10kg	5056191008450

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:

Product Name: ISOMALT POWDER, 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:

Symptoms relating to use-

Inhalation:- Dust is of nuisance value only

Skin contact: Not normally harmful to skin, though prolonged exposure should be avoided and good personal hygiene is essential

Eye contact: Dust in the eyes will cause physical irritation

3: First Aid Measures:

Skin contact: No particular precaution. Wash affected area under copious amounts of cold water.

Eye contact: Irrigate the eye with copious amounts of water and seek medical attention if discomfort persists.

Inhalation: Remove the person from the source of exposure. If discomfort persists seek medical advice.

Ingestion: No specific measures required in cases of accidental ingestion of normal dose level quantities of product.

4: Firefighting Measures:

Extinguishing media: All types suitable. Special precautions: In certain conditions Isomalt/Air mixtures are explosive. Avoid any ignition sources.

Personal Protective Equipment: Wear self-contained breathing apparatus in fire conditions

5: Accidental Release Measures:

Environmental precautions: Isomalt deposits should not be allowed to accumulate on horizontal surfaces, as these may form an explosive mixture if they are suddenly released into the atmosphere.

After leakage: Small spillages: use a dry cleaning method e.g. vacuum cleaner, or alternatively brush up spillages and collect in suitable. For large spillages a vacuum cleaning system is essential, or alternatively use a vacuum truck to collect and then dispose of material. Thereafter flush with water.

6: Handling And Storage:

Storage: the product is not hygroscopic, however it should be stored in closed packs, in fresh, well ventilated and dry warehouse.

Handling: the product does not need special precautions for its handling. Avoid leakage of powder from packing. Store away from chemicals and odour products, at 5-30°C, RH < 65%. Use within expiry date.

7: Personal Protection:

Eye protection: Goggles or similar eye protection will prevent contact with the eyes

Hand protection: Wear suitable rubber or plastic gloves to prevent skin contact

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Respiratory protection: Wear a suitable dust mask when handling the material (nuisance dust only)

8: Physical and Chemical Properties:

Physical state at 25°C: white fine powder

Odour: odourless

Density (kg/dm³): ca. 500 g/l

pH: - 5 (20% DS)

Boiling point: not applicable

Melting point: ca. 145°C

Flash point: unknown

9: Stability and Reactivity:

Isomalt/Air mixtures form explosive mixtures in certain conditions.

Lower Explosive Limit: 30g/m³.

Isomalt is a class St. 1 dust at normal moisture level

Minimum ignition Energy: 14mJ < Emin < 28mJ at normal moisture level.

Pmax: 7.7 bar

Kst: 74 bar m/s

Layer Ignition Temperature: >450°C

In fire it may decompose to release carbon dioxide, water and carbon monoxide (incomplete combustion).

10: Toxicological Information:

Acute toxicity: None

Chronic toxicity: None

11: Ecological Considerations:

The product is biodegradable and does not present ecological risk, though it should be handled and disposed of in a responsible manner. Avoid accidental leakage into water, waste water or soil.

12: Disposal Considerations:

There are no special considerations beyond those normally applied by local authority regulations.

13: Transport Information:

There are no special requirements for transport.

14: Regulatory Information:

not applicable

15: Other Information:

E953

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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.