



Specification

Product Name: Erythritol Powder
Product Code: SPEC0344

Description:

Our Erythritol Powder is a premium-grade, ultra-fine sweetener produced through natural fermentation of plant-based sugars. With approximately 70% of the sweetness of regular sugar but with zero calories, it is an ideal choice for anyone seeking a healthier alternative without compromising on taste or performance in recipes. Erythritol has a clean, neutral sweetness with no bitter aftertaste. The texture of our erythritol closely resembles that of icing sugar, making it particularly effective for applications where a smooth, uniform consistency is desired. It dissolves extremely quickly in both hot and cold liquids, making it ideal for beverages, frostings, and glazes, where immediate solubility is important. Its stability under heat and low moisture absorption also make it a great ingredient for baked goods, drinks, meringues, sauces, glazes, syrups, confectionery, chocolate, ice creams and much more.

Specifications:

DESCRIPTION	
CAS No.	149-32-6
EC Number	E968
Formula (Molecular)	C ₄ H ₁₀ O ₄
Molecular weight	122.12
Synonyms	Meso-Erythritol, Erythrol, Phycitol
Chemical name	1,2,3,4 – Butanetetrol

SPECIFICATIONS	
Mesh Size	18 - 60 mesh
Melting Range	119 - 123 °C
Assay (on a dry basis)	99.5 - 100.5 %
Solubility	Very soluble in water, slightly soluble in ethanol
pH	5 - 7
Loss on drying	Max 0.2 %
Ash	Max 0.1 %
Lead	Max 0.5 mg/kg, ppm
Arsenic	Max 0.3 mg/kg, ppm
Reducing Sugars	Max 0.3 mg/kg, ppm
Ribitol and Glycerol	Max 0.1 %
Content (Pathogens)	Negative

MICROBIOLOGICAL	
Bacterial Count	Max 300 cfu/g
Yeasts	Max 25 cfu/g
Moulds	Max 25 cfu/g



Coliforms

Max 0.3 MPN/g

Ingredients:

Erythritol Powder (E968)

Dietary Information:

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

Storage:

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

Packaging:

100g	5056191026270
250g	5056191026287
500g	5056191026294
5kg	5056191026300
10kg	5056191026317

Shelf Life:

36 months if stored as above and unopened.

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:**

Product Name: Erythritol Powder

Synonym: 1,2,3,4-Butanetetrol

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Registered UK Company No: 08758412 | UK VAT No: GB175274393

**Recommended Use:**

As a sweetener or ingredient in food or beverage processing.

Details of the supplier of the safety data sheet:

Company: Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN. Tel: 0044 (0)1246 906247

Emergency Telephone Contact: 07387 330318. <https://specialingredients.co.uk/pages/contact>

2: Hazards Identification:

Emergency Overview

OSHA Hazards

No known OSHA hazards

Not a dangerous substance according to GHS

HMIS Classification

Health Hazard:0

Flammability:0

Physical hazards:0

NFPA Rating

Health Hazard:0

Fire:0

Reactivity Hazard:0

Potential Health Effects

- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Skin: May be harmful if absorbed through skin. May cause skin irritation.
- Eyes: May cause eye irritation.
- Ingestion: May be harmful if swallowed.

3: Composition/Information on Ingredients:

Composition:

Synonym: 1,2,3,4-Butanetetrol

Meso-1,2,3,4-Tetrahydroxybutan

Erythritol

EC-NO:205-737-3

Common name	Cas No:	Molecular Weight	Formula	% by Weight
Erythritol	149-32-6	122.12	C ₄ H ₁₀ O ₄	100

Toxicological Data on Ingredients: Not Applicable.

4: First Aid Measures:

Eye Contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not Available.



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Inhalation: Allow the victim to rest in a well ventilated area. Immediate medical attention.

Serious Inhalation: Not Available.

Ingestion: Do not include vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not Available.

5: Firefighting Measures:

Flammability of the Product: May be combustible at high temperature

Auto-Ignition Temperature: Not Available.

Flash Points: Not Available.

Flammable Limits: Not Available.

Products of Combustion: These products are carbon oxides (CO,CO₂)

Fire Hazards in Presence of Various Substances: Not Available.

Explosion Hazards in presence of Various Substances: Risks of explosion of the product in presence of mechanical impact; Not Available.

Fire Fighting Media and Instruction:

- Small Fire: Use Dry chemical powder.
- Large Fire: Use Water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not Available.

Special Remarks on Explosion Hazards: Not Available.

6: Accidental Release Measures:

Small Spill: Use appropriate tools to put the spilled solid in a convenient waster disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waster disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7: Handling and Storage:

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

Storage: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

8: Exposure Controls/ Personal Protection:

Contains no substances with occupational exposure limit values.

Personal protective equipment:

Respiratory Protection

Respiratory protection is not required. Where protection from nuisance levels to dusts are desired, use type N95(US) or Type P1(EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH(US) or CEN(EU).

Hand Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper gloves removal technique (without touching



glove's outer surface) to avoid skin contact with this products. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN166(EU).

Skin and Body Protection

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

Hygiene measures

General industrial hygiene practice.

9: Physical and Chemical Properties:

Physical state and appearance: Solid

Odor: Not Available

Taste: Not Available

Molecular Weight: 122.12/mole

Colour: Not Available.

PH(1% soln/water): Not Available.

Boiling Point: 330°C (626°F)

Melting Point: 119°C-123°C.

Critical Temperature: Not Available

Specific Gravity: Not Available

Vapor Pressure: Not Available

Vapor Density: Not Available

Volatility: Not Available

Odor Threshold: Not Available

Water/Oil Dist.Coeff: Not Available

Lonicity(in water): Not Available

Dispersion Properties: See solubility in water.

Solubility: Easily soluble in cold water.

10: Stability and Reactivity:

Chemical Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: no date available.

Conditions to avoid: no date available.

Materials to avoid: Strong oxidizing agents, Strong bases.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions-Carbon oxide.

11: Toxicological Information:

Acute toxicity

Oral LD50: no date available.

Inhalation LC50: no date available



Dermal LD50: no date available

Other Information on acute toxicity: LD50 Intraperitoneal-mouse-7000 mg/kg

Skin corrosion/irritation: no date available

Serious eye damage/eye irritation: no date available

Respiratory or skin sensitization: no date available

Germ cell mutagenicity: no date 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by OSHA.

Reproductive toxicity: no date available.

Teratogenicity: no date available.

Specific target organ toxicity-single exposure (Globally Harmonized System): no date available.

Specific target organ toxicity-repeated exposure (Globally Harmonized System): no date available.

Aspiration hazard: no date available.

Potential health effects:

- Inhalation: Maybe harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: Maybe harmful if swallowed.
- Skin: Maybe harmful if absorbed through skin. May cause skin irritation.
- Eyes: May cause eyes irritation.

Signs and Symptoms of Exposure

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

Synergistic effects: no date available.

Additional Information: RTECS: KF2000000

12: Ecological Information:

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradations: Possibly hazardous short term degradation products are not likely. However long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

13: Disposal Consideration (non-mandatory):

Disposal can be treated as a common waste for disposal or dumped into a landfill site in accordance with relevant authority guidelines.

Note BOD load of sugar solutions in waste water streams.

Personal precautions should be observed.

14: Transport Information:



General Information: As non-hazardous chemical.

Transport Requirement: Avoid toxic or other harmful materials. No special transport requirement are necessary .

UN Number: None allocated.

Calss: None allocated.

Subsidiary Risk 1: None allocated.

Packaging Group: None allocated.

Hazchem code: None allocated.

Incompatibilities: None.

Proper Shipping Name: None allocated.

Marine Pollutant: No.

According to IMDG/IMO, it is not dangerous cargo.

15: Regulatory Information (non-mandatory):

OSHA Hazards. No known OSHA hazards.

DSL Status: All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with know CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards.

Massachusetts Right To Know Components

- No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

- meso-Erythritol CAS NO: 149-32-6. Revision Date: 20180101

New Jersey Right To Know Components

- meso-Erythritol CAS NO: 149-32-6. Revision Date: 20180101

16: Other Information:

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.