



Specification

Product Name: Ascorbic Acid
Product Code: SPEC0003

Description:

Our Ascorbic Acid is a premium quality product. Also known as Vitamin C powder it can be used to prevent browning. When used to strengthen dough whilst making bread it has a beneficial effect on the volume, crumb structure and softness.

Specifications:

Analysis Contents	Analysis Standard
Characteristics	White or almost White crystals Crystalline Powder
Identification	Positive Reaction
Melting Point	About 190°C
PH (with 2% water solution)	-2.8
PH (with 5% water solution)	-2.6
Clarity Of Solution	Clear 2.4 2.1
Colour Of Solution	≤BY ₇
Copper	≤5ppm
Heavy Metals	≤10ppm
Mercury	≤0.1mg/kg
Lead	≤2mg/kg
Arsenic	≤3ppm
Oxalic Acid	≤0.2%
Iron	≤2ppm
Cadmium (Cd)	<1mg/kg
Impurity E	≤0.2%
Loss on Drying	≤0.4%
Sulphate Ash (Residue On Ignition)	≤0.1%
Specific Optical Rotation	+20.5° – +21.5°
Residual Solvents	Pass

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Assay	99.0% – 100.5%
Conclusion	The above-mentioned product conforms to the analysis

Ingredients:

Ascorbic Acid (E300)

Dietary Information:

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

Storage:

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

Packaging:

Size	EAN
100g	5056191004155
250g	5056191004162
500g	5056191004179
5kg	5056191005114
10kg	5056191005121

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 and Company Identification:

Product Name: Ascorbic Acid

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

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

2: Composition and Information on Ingredients:

CAS#: 50-81-7

Chemical Name: L-(+)-Ascorbic Acid

% - 100%

3: Hazard Identification:

Emergency Overview

Light sensitive, air sensitive.

Potential Health Effects

Eye – Contact cause transient eye irritation.

Skin – Low hazard for usual industrial handling.

Ingestion – Low hazard for usual industrial handling. May cause mild digestive tract irritation. Inhalation

– May cause respiratory tract irritation.

Chronic – Not available

4: First Aid Measures:

Eyes – Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

Skin – Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion – Get medical aid. Wash mouth out with water.

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Inhalation – Remove from exposure to fresh air immediately, if not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Notes to Physician – Treat symptomatically

5: Firefighting Measures:

General Information – As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media – In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature – Not available. Flash Point – Not available.

NFPA Rating – Not published.

Explosion Limits – Lower Not available. Upper Not available.

6: Accidental Release Measures:

General Information – Use proper personal protective equipment as indicated in section Spills/Leaks – Vacuum or sweep up material and place into a suitable disposal container.

7: Handling And Storage:

Handling – Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Storage – Stored in a cool dry place, stored in a tightly closed container.

8: Exposure Controls/ Personal Protection:

Engineering Controls – Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes – Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 OPR 1910.133 or European Standard EN166.

Skin – Wear appropriate protective gloves to prevent skin exposure.

Clothing – Wear appropriate protective clothing to prevent skin exposure.

Respirators – Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Always use a NIOSH or European standard EN 145 approved respirators when necessary.

9: Physical and Chemical Properties:

Physical State – Powder

Appearance – White

Odour – Not available

pH – Not available

Vapor Pressure – Negligible

Viscosity – Not available

Boiling Point – Not available

Freezing/Melting Point – 190 °C

Decomposition Temperature – Not available

Solubility – 333 Gs/ L water at 20 °C



Specific Gravity/Density – 1.7000g/cm³

Molecular Formula – C₆H₈O₆

Molecular Weight – 176.13

10: Stability and Reactivity:

Chemical stability – Stable under normal temperatures and pressures

Conditions to Avoid – Incompatible materials light exposure to air

Incompatibilities with Other Materials – Strong oxidizing agents

Hazardous Decomposition Products – Carbon monoxide carbon dioxide Hazardous Polymerization
– Will not occur

11: Toxicological Information:

RTECS # – CAS # 50-81-7: C 17650000

LD50/LC50 – CAS # 50-81-7: Oral mouse; LD50 =3367mg/kg Oral rat: LD50=11900mg/kg

Carcinogenicity – L-(+)-Ascorbic acid Not listed by ACGIH IARC NIOSH NTP, or OSHA Other –
see actual entry in RTECS for complete information.

12: Ecological Considerations:

For further information contact Special Ingredients Ltd.

13: Disposal Considerations:

Dispose of in a manner consistent with local regulations.

14: Transport Information:

	US DOT	IMO	IATA	RID/ADR	Canadian TDG
	N/A				N/A
Shipping Name	.	.		.	
Hazard Class					
UN Number:					
Packing Group:					

15: Regulatory Information:

European/International Regulations

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European Labeling in Accordance with EC Directives Hazard Symbols

– Not available.

Disk Phrases;

Safety Phrases;

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS # 50-81-7:0

Canada

CAS#50-81-7 is listed on Canada's DSLADSL List.

CAS#50-81-7 is not listed on Canada's ingredient disclosure list.

Exposure Limits

US FEDERAL

TSCA

CAS # 50-81-7 is listed on the TSCA inventory.

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.