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ASCORBIC ACID				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:

Ascorbic acid granules.

Ascorbic acid 3% solution.

Ascorbic acid solution of any concentration.

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

To be used as a sample preservative for analytical testing.

1.3. Details of the supplier of the safety data sheet:



ALS Laboratories (UK) Limited

Torrington Avenue,
Coventry, CV4 9GU

1.4. Emergency telephone number

T: +44 (0)24 7642 1213

F: +44 (0)24 7685 6575

Section 2 – Hazards Identification

2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other hazards - none

Section 3 – Composition, Information on Ingredients

3.2. Mixtures

Component	Hazards	Concentration
Ascorbic acid	None.	0-100%
Water	None.	0-100%

Section 4 – First Aid Measures

4.1. Description of first aid measures

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Eyes: Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.

Skin: Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.

Ingestion: Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink.

Induce vomiting immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

Section 5 – Fire Fighting Measures

5.1. Extinguishing media: Use foam or dry chemical to extinguish fire.

5.2. Special hazards arising from the substance or mixture: When heated to decomposition, emits acid fumes.

5.3. Advice for firefighters: Firefighters should wear full firefighting turnout gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures: Protect skin and eyes from spillages.

6.2. Environmental precautions: No special measures necessary.

6.3. Methods and materials for cleaning up: Use a suitable absorbent. Dispose of non-hazardous waste.

6.4. Reference to other sections. See suitable PPE in section 8.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are

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opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 – Exposure Controls, Personal Protection

8.1. Control parameters: This substance has no WEL under EH40.

8.2. Exposure control: Wash hands thoroughly after handling material and before eating or drinking.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Molecular formula C₆H₈O₆.

Appearance Clear colourless solution.

Molecular weight 176.13.

Odour Slight odour.

Specific Gravity 1.7 g/mL @ 20°C.

Odour Threshold N/A.

Vapor Density (air=1) N/A.

Solubility Soluble.

Melting Point 191°C.

Evaporation rate N/A (*Butyl acetate* = 1).

Boiling Point/Range N/A.

Partition Coefficient N/A (*log POW*).

Vapor Pressure (20°C) N/A.

pH 5, acidic.

Flash Point: N/A.

LEL 10%.

Autoignition Temp.: N/A.

UEL 20%.

9.2. Other information

Section 10 – Stability and Reactivity

10.1. Reactivity: No data available.

10.2. Chemical stability: Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions: Hazardous Polymerization: Has not been reported.

10.4. Conditions to avoid: No data available.

10.5. Incompatible materials: Alkalis, iron, copper, water, oxidizing agents, acids.

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10.6. Hazardous decomposition products: No data available.

Section 11 – Toxicological Information

11.1. Information on toxicological effects:

Acute Symptoms/Signs of exposure: *Eyes*: Redness, tearing, itching, burning, conjunctivitis. *Skin*: Redness, itching.

Ingestion: Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. *Inhalation*: Irritation of mucous membranes, coughing, wheezing, shortness of breath,

Chronic Effects: No information found.

Sensitization: none expected

Ascorbic Acid: LD50 [oral, rat]; N/A; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A

Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.

Section 12 – Ecological Information

12.1. Toxicity: No data available.

12.2. Persistence and degradability: No data available.

12.3. Bioaccumulative potential: No data available.

12.4. Mobility in soil: No data available.

12.5. Results of PBT and vPvB assessment: No data available.

12.6. Other adverse effects: No data available.

Section 13 – Disposal Considerations

13.1. Waste treatment methods

Reuse or reprocess if possible. Do not dump into any sewers, on the ground, or into any body of water. Any disposal practice must be in compliance with regulations (contact environmental agency for specific rules). Waste characterisation and compliance with applicable laws are the responsibility of the waste generator.

Section 14 – Transport Information

14.1. UN number: Not regulated.

14.2. UN proper shipping name: Not regulated.

14.3. Transport hazard class(es): Not regulated.

14.4. Packing group: Not regulated.

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14.5. Environmental hazards: Not regulated.

14.6. Special precautions for user: Not regulated.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

CDG (Carriage of Dangerous Goods) Regulations

CLP (Chemicals, Labelling and Packaging) Regulations.

CoSHH (Control of Substances Hazardous to Health) regulations

Hazardous Waste Regulations

PPE Regulations

Workplace Exposure Limits EH40

15.2. Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16 – Other Information

16.1 Other information:

Written by Paul Talbot.

16.2 Date of the latest revision of the SDS:

See document header.