



## SAFETY DATA SHEET

L-ASCORBIC ACID

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Compilation date: 03/07/2014

Revision No: 1

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name:** L-ASCORBIC ACID

**CAS number:** 50-18-7

**EINECS number:** 200-066-2

**Product code:** A-12049/12053/12054

**Synonyms:** ANTISCORBUTIC FACTOR

L-THREOASCORBIC SCID

VITAMIN C

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

**Use of substance / mixture:** Laboratory chemicals.Manufacture of substances.

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

**Company name:** Park Scientific Limited

24 Low Farm Place

Moulton Park

Northampton

Northamptonshire

NN3 6HY

UK

**Tel:** 01604 646945

**Fax:** 01604 648241

**Email:** info@parksscientific.com

#### 1.4. Emergency telephone number

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** This product has no classification under CLP.

#### 2.2. Label elements

**Label elements:** This product has no label elements.

#### 2.3. Other hazards

**PBT:** This substance is not identified as a PBT substance.

### Section 3: Composition/information on ingredients

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## 3.1. Substances

**Chemical identity:** L-ASCORBIC ACID

**Contains:** Organic solid

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

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

**Skin contact:** Quantitative data on the toxicity of this product are not available. May be harmful if absorbed through skin.

**Eye contact:** There may be irritation and pain.

**Ingestion:** May be harmful if swallowed. Quantitative data on the toxicity of this product are not available.

**Inhalation:** Quantitative data on the toxicity of this product are not available. May be harmful.

**Delayed / immediate effects:** Chronic ingestion of large doses may cause gastrointestinal disturbances including nausea and diarrhea. Urinary effects involving urine acidification, oxalate and uric crystallization in the bladder and kidney, and decreased reaction time and psychomotor co-ordination.

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

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

[cont...]

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## 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

## 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Carefully sweep up. Avoid generation of dusts. Transfer to a suitable container. Wash the spillage site with large amounts of water.

## 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air. Avoid direct contact with the substance.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Avoid contact with water or humidity.

**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Workplace exposure limits:

#### Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	None assigned	-	-	-

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Respiratory protective device with particle filter.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses.

**Skin protection:** Protective clothing.

**Environmental:** Prevent from entering in public sewers or the immediate environment.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** powder, fine crystalline

**Colour:** White

[cont...]

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**Odour:** Barely perceptible odour

**Evaporation rate:** Negligible

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Highly soluble

**Viscosity:** Non-viscous

**Melting point/range°C:** 190-194 (dec)

**Flammability limits %: lower:** No data

**Flash point°C:** No data

**Autoflammability°C:** No data

**pH:** 1.0-2.5@176g/l@25\*c

## 9.2. Other information

**Other information:** Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under recommended conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

**Conditions to avoid:** Direct sunlight. Moist air.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. The possibility of reaction with other substances cannot be excluded

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** No further data available.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	11,900	mg/kg

### Symptoms / routes of exposure

**Skin contact:** Quantitative data on the toxicity of this product are not available. May be harmful if absorbed through skin.

**Eye contact:** There may be irritation and pain.

**Ingestion:** May be harmful if swallowed. Quantitative data on the toxicity of this product are not available.

[cont...]

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**Inhalation:** Quantitative data on the toxicity of this product are not available. May be harmful.

**Delayed / immediate effects:** Chronic ingestion of large doses may cause gastrointestinal disturbances including nausea and diarrhea. Urinary effects involving urine acidification, oxalate and uric crystallization in the bladder and kidney, and decreased reaction time and psychomotor co-ordination.

**Other information:** RTECS: Not available 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.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** Not applicable.

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

### 12.4. Mobility in soil

**Mobility:** No Data Available

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This substance is not identified as a PBT substance.

### 12.6. Other adverse effects

**Other adverse effects:** Adverse ecological effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter Drinking Water supplies, Waste Water, Soil!

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Observe all federal, state and local environmental regulations.

**Disposal of packaging:** Dispose of as for unused product.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** N/A

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

[cont...]

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## 14.4. Packing group

Packing group: N/A

## 14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

## 14.6. Special precautions for user

Special precautions: Not dangerous goods for :ADR/RID:IMDG:IATA:

## Section 15: Regulatory information

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

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

Also covers catalogue number/s:-A-12004

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.