



## SAFETY DATA SHEET

D-FRUCTOSE A.R.

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Compilation date: 04/03/2008

Revision date: 02/06/2015

Revision No: 1

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

#### 1.1. Product identifier

**Product name:** D-FRUCTOSE A.R.

**CAS number:** 57-48-7

**EINECS number:** 200-333-3

**Product code:** F-10286/10287/10288

**Synonyms:** FRUIT SUGAR

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

**Use of substance / mixture:** As a general purpose laboratory reagent

#### 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@parkscientific.com

#### 1.4. Emergency telephone number

### Section 2: Hazards identification

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

**Classification under CHIP:** Xi: R36

**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

**Other hazards:** Not classified as dangerous according to EC directives

**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:** D-FRUCTOSE A.R.

**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.

**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.

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

**Skin contact:** There may be mild irritation at the site of contact. Quantitative data on the toxicity of this product are not available.

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

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

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

**Delayed / immediate effects:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### 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. Carbon dioxide. Dry chemical powder. Alcohol resistant foam.

### 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.

### 6.2. Environmental precautions

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

[cont...]

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## 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.

**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 goggles.

**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:** crystalline powder,

**Colour:** White

**Odour:** Odourless

**Evaporation rate:** Negligible

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

[cont...]

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**Solubility in water:** Highly soluble

**Viscosity:** Non-viscous

**Melting point/range°C:** 119-122

**Flammability limits % lower:** No data

**Flash point°C:** No data

**Autoflammability°C:** No data

**pH:** 5.0-7@18g/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 normal 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
INTRAVENOUS	RABBIT	LD50	15	g/kg

### Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact. Quantitative data on the toxicity of this product are not available.

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

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

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

**Delayed / immediate effects:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

[cont...]

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Other information: RTECS: Not available.

## 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: Offer surplus and non recyclable products to a licensed disposal company.

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)

### 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:

[cont...]

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## 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.

**Phrases used in s.2 and 3:** R36: Irritating to eyes.

**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.