

L-FRUCTOSE

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Revision No: 1

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

1.1. Product identifier

Product name: L-FRUCTOSE

CAS number: 7776-48-9

Product code: BIFS0104

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

1.3. Details of the supplier of the safety data sheet

Company name:	Apollo Scientific Ltd
	Units 3 & 4
	Parkway
	Denton
	Manchester
	M34 3SG
	UK
Tel:	0161 337 9971
Fax:	0161 336 6932
Email:	david.tideswell@apolloscientific.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP:	Xi: R36/37/38
Classification under CLP:	STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315
Most important adverse effects:	Irritating to eyes, respiratory system and skin.

2.2. Label elements

Label elements under CLP:

Hazard statements:H315: Causes skin irritation.H319: Causes serious eye irritation.H335: May cause respiratory irritation.Signal words:WarningHazard pictograms:GHS07: Exclamation mark



Precautionary statements: P261: Avoid breathing dust.

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P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Label elements under CHIP:

Hazard symbols: Irritant.



Risk phrases: R36/37/38: Irritating to eyes, respiratory system and skin.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: L-FRUCTOSE

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. 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. Consult a	
	doctor.	
4.2. Most important symptoms and effects, both acute and delayed		
Skin contact:	There may be irritation and redness at the site of contact.	
Eye contact:	There may be irritation and redness. The eyes may water profusely.	
Ingestion:	There may be soreness and redness of the mouth and throat.	
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may	
	cause coughing or wheezing.	
4.3. Indication of any immediat	e medical attention and special treatment needed	

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the

surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes. Carbon oxides.

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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: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust.

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: Transfer to a closable, labelled salvage container for disposal by an appropriate

method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Only use in fume hood.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:Store in cool, well ventilated area. Keep container tightly closed. Product is hygroscopic.Take precautions to avoid contact with atmospheric moisture. Store under Argon.

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: Not applicable.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection: Protective gloves.

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Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Powder

Colour: White

Odour: Odourless

Solubility in water: Soluble

Also soluble in: Alcohol

Melting point/range °C: 143-146

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. This material is hygroscopic and will absorb moisture

upon exposure to air.

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: Heat. Moist air. Humidity.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data

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Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

 Disposal operations:
 MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

 Disposal of packaging:
 Dispose of as special waste in compliance with local and national regulations Observe all federal, state and local environmental regulations.

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

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

	15.2. Chemical Safety Assessn	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.	
		* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by	
		decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?	
		c=TOXTREE	
		~ Data predicted using computatioanl software ACD/ToxSuite v 2.95.1 Copyright 1994-	
		2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry	
		Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/	
	Phrases used in s.2 and 3:	H315: Causes skin irritation.	
		H319: Causes serious eye irritation.	
		H335: May cause respiratory irritation.	
		R36/37/38: Irritating to eyes, respiratory system and skin.	
	Legal disclaimer:	The material is intended for research purposes only and should be handled exclusively	
		by those who have been fully trained in safety, laboratory and chemical handling	
		procedures. The above information is believed to be correct to the best of our	
		knowledge. The above information is believed to be correct to the best of our knowledge	
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