

L-ASPARAGINASE

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Compilation date: 19/11/2012

Revision date: 25/11/2015

Revision No: 2

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

1.1. Product identifier

Product name: L-ASPARAGINASE

CAS number: 9015-68-3

EINECS number: 232-765-3

Product code: BITP1331

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 CLP:	Resp. Sens. 1: H334; Skin Sens. 1: H317; -: H361
Most important adverse effects:	May cause an allergic skin reaction. May cause allergy or asthma symptoms or
	breathing difficulties if inhaled. Suspected of damaging fertility or the unborn child .

2.2. Label elements

Label elements:	
Hazard statements:	H317: May cause an allergic skin reaction.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H361: Suspected of damaging fertility or the unborn child .
Signal words:	Danger
Hazard pictograms:	GHS07: Exclamation mark
	GHS08: Health hazard



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Precautionary statements: P342+311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/.

P260: Do not breathe dust.

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

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: L-ASPARAGINASE

CAS number: 9015-68-3

EINECS number: 232-765-3

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. If irritation persists seek medical attention

Eye contact: Bathe the eye with running water for 15 minutes.

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

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

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

- Eye contact: There may be irritation and redness.
 - **Ingestion:** There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs.
 - **Inhalation:** Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

4.3. Indication of any immediate 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. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen 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 r	neasures		
6.1. Personal precautions, prot	tective equipment and emergency procedures		
Personal precautions:	If outside do not approach from downwind. Notify the police and fire brigade		
	immediately. 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 attempt to take action without suitable protective clothing - see section 8 of SDS. Do		
	not create dust.		
6.2. Environmental precautions	8		
Environmental precautions:	Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes		
	or gas.		
6.3. Methods and material for c	containment and cleaning up		
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific		
	substance. Transfer to a closable, labelled salvage container for disposal by an		
	appropriate method.		
6.4. Reference to other section	S		
Reference to other sections:	Refer to section 8 of SDS.		
Section 7: Handling and storage	ge		
7.1. Precautions for safe handl	ing		
Handling requirements:	Ensure there is exhaust ventilation of the area. Avoid the formation or spread of dust in		
	the air. Only use in fume hood.		
7.2. Conditions for safe storage	e, including any incompatibilities		
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Recommended		
	storage temp 2-8 °C.		
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:	No data available.		-

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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be used in handling. Respiratory protective device with particle filter.

Hand protection: Protective gloves.

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: Lyophilised powder

9.2. Other information

Other information: No data available.

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.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

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. Nitrogen oxides

(NOx).

Section 11: Toxicological information

11.1. Information on toxicological effects

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Toxicity values: Route Species Test Value Units ORAL RAT LD50 7500 mg/kg Relevant hazards for substance: Hazard Route Basis Respiratory/skin sensitisation INH DRM Hazardous: calculated Reproductive toxicity --Hazardous: calculated Symptoms / routes of exposure Skin contact: There may be mild irritation at the site of contact. Eye contact: There may be irritation and redness. Ingestion: There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs. Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. Delayed / immediate effects: Delayed effects can be expected after long-term exposure. Other information: Reproductive effects have been observed on tests with laboratory animals Section 12: Ecological information 12.1. Toxicity Ecotoxicity values: No data available. 12.2. Persistence and degradability Persistence and degradability: Not applicable. 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 product is not identified as a PBT/vPvB 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

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

FEDERAL REGULATIONS

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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

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.
	* 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 computational 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 s.3:	H317: May cause an allergic skin reaction.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H361: Suspected of damaging fertility or the unborn child <state effect="" if="" known="" specific=""></state>
	<state conclusively="" exposure="" exposure<="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" th="" that=""></state>
	cause the hazard>.
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