

PATULIN STANDARD SOLUTION

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Revision No: 2

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

1.1. Product identifier

Product name: PATULIN STANDARD SOLUTION

Product code: BIMS108

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		

Emergency tel: -

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP:	Acute Tox. 4: H302+312+332; Eye Irrit. 2: H319; Flam. Liq. 2: H225
Most important adverse effects:	Highly flammable liquid and vapour. Harmful if swallowed, in contact with skin or if
	inhaled. Causes serious eye irritation.

2.2. Label elements

Label elements:	
Hazard statements:	H225: Highly flammable liquid and vapour.
	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
	H319: Causes serious eye irritation.
Hazard pictograms:	GHS02: Flame

GHS07: Exclamation mark



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Signal words: Danger

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

P260: Do not breathe vapours.

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

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ACETONITRILE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-835-2	75-05-8	-	Flam. Liq. 2: H225; Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319	99.999%

Section 4: First aid measures

4.1. Description of first aid mea	asures
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.
	Drench the affected skin with running water for 10 minutes or longer if substance is still
	on skin. Consult a doctor.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water
	to drink immediately. 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. Nausea and stomach
	pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

Section 5: Fire-fighting measures

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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: Flammable. Forms explosive air-vapour mixture. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides (NOx). Hydrogen cyanide (HCN).

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. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

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 mists in the air.Smoking is forbidden. Use non-sparking tools. Only use in fume hood. Handle under dry protective gas (Ar).

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Keep away from
	sources of ignition. Prevent the build up of electrostatic charge in the immediate area.
	Ensure lighting and electrical equipment are not a source of ignition. Store at -20 $^{\circ}\!\mathrm{C}$
	Store under Argon.

Suitable packaging: Must only be kept in original packaging.

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7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

ACETONITRILE

Wor	Workplace exposure limits:				
	State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
	UK	-	-	40ppm	60ppm

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical

equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

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

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid	
Colour:	Colourless	
Evaporation rate:	No data available.	
Oxidising:	No data available.	
Solubility in water:	No data available.	
Viscosity:	No data available.	
Boiling point/range℃:	81-82 Melting point/range °C:	No data available.
Flammability limits %: lower:	4.4 upper:	16
Flash point℃:	2 Part.coeff. n-octanol/water:	No data available.
Autoflammability℃:	523 Vapour pressure:	97.1hPa@20C
Relative density:	0.782 g/ml pH :	No data available.
VOC g/l:	No data available.	

9.2. Other information

Other information: No data available.

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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. Stable at room temperature.

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. Hot surfaces. Sources of ignition. Flames.

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). Hydrogen cyanide (HCN).

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

ACETONITRILE

DERMAL	RBT	LD50	2000	mg/kg
INHALATION	RAT	8H LC50	7551	ppm
ORAL	RAT	LD50	2460	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

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. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

ACETONITRILE

Daphnia magna (water flea)	14d NOEC	640	mg/l
Daphnia magna (water flea)	48H EC50	3600	mg/l
FATHEAD MINNOW (Pimephales promelas)	96H LC50	1640	mg/l

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 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	5
Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal
	company. 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

14.1. UN number

UN number: UN1648

14.2. UN proper shipping name

Shipping name: ACETONITRILE

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		aye. /
14.3. Transport hazard class(e	s)	
Transport class:	3	
14.4. Packing group		
Packing group:	11	
14.5. Environmental hazards		
Environmentally hazardous:	No Marine pollutant: No	
14.6. Special precautions for u	ser	
Tunnel code:	D/E	
Transport category:	2	
Section 15: Regulatory inform	ation	
15.1. Safety, health and environ	nmental regulations/legislation specific for the substance or mixture	
Specific regulations:	Not applicable.	
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		
L	This safety data sheet is prepared in accordance with Commission Regulation (EU) No	
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