

1-(DIPHENYLMETHYL)AZETIDINE-3-CARBONITRILE

Page: 1

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

1.1. Product identifier

Product name: 1-(DIPHENYLMETHYL)AZETIDINE-3-CARBONITRILE

CAS number: 36476-86-5

Product code: OR25671

Synonyms: 1-BENZHYDRYL-3-CYANOAZETIDINE

1-BENZHYDRYLAZETANE-3-CARBONITRILE

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

0.0. Label elemente	
Most important adverse effects:	Harmful by inhalation, in contact with skin and if swallowed. Causes burns.
Classification under CLP:	Acute Tox. 4: H302+312+332; Skin Corr. 1B: H314
Classification under CHIP:	Xn: R20/21/22; C: R34

2.2. Label elements

Label elements under CLP:

Hazard statements: H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark



1-(DIPHENYLMETHYL)AZETIDINE-3-CARBONITRILE

		Page:	2
Precautionary statements:	P280: Wear protective gloves/protective clothing/eye protection/face protection.		
	P309+311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor.		
Label elements under CHIP:			
Hazard symbols:	Corrosive.		
Risk phrases:	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.		
	R34: Causes burns.		
Safety phrases:	S22: Do not breathe dust.		
	S26: In case of contact with eyes, rinse immediately with plenty of water and seek		
	medical advice.		
	S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.		
	S45: In case of accident or if you feel unwell, seek medical advice immediately (show		
	the label where possible).		
2.3. Other hazards			

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: 1-(DIPHENYLMETHYL)AZETIDINE-3-CARBONITRILE

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. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning. Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible. Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If

unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. 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: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

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1-(DIPHENYLMETHYL)AZETIDINE-3-CARBONITRILE

		Page:	3
Eye contact:	Corneal burns may occur. May cause permanent damage.		
Ingestion:	Corrosive burns may appear around the lips. Blood may be vomited. There may be		
	bleeding from the mouth or nose.		
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Exposure may		
	cause coughing or wheezing.		
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.		
4.3. Indication of any immediat	e medical attention and special treatment needed		
Immediate / special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in		
	attendance.		
Section 5: Fire-fighting measu	res		
5.1 Extinguishing modia			
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 fro	om the substance or mixture		
Exposure hazards:	Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.		
	Nitrogen oxides (NOx).		
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	·		
6.1. Personal precautions, prot	ective equipment and emergency procedures		
Personal precautions:	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	3		
Environmental precautions:	Do not discharge into drains or rivers.		
6.3. Methods and material for o	containment and cleaning up		
	Clean-up should be dealt with only by qualified personnel familiar with the specific		
olean-up procedules.	substance. Transfer to a closable, labelled salvage container for disposal by an		
	appropriate method.		
6.4. Deference to other easting			
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Reference to other sections: Refer to section 8 of SDS.

1-(DIPHENYLMETHYL)AZETIDINE-3-CARBONITRILE

Page: 4

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. 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. 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. Eye protection: Tightly fitting safety goggles. 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: Solid Melting point/range °C: 150-156 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.

1-(DIPHENYLMETHYL)AZETIDINE-3-CARBONITRILE

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

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may

cause coughing or wheezing.

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

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

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.

1-(DIPHENYLMETHYL)AZETIDINE-3-CARBONITRILE

Page: 6

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 14.1. UN number UN number: UN2923 14.2. UN proper shipping name Shipping name: CORROSIVE SOLID, TOXIC, N.O.S. 14.3. Transport hazard class(es) Transport class: 8 (6.1) 14.4. Packing group Packing group: ||| 14.5. Environmental hazards Environmentally hazardous: No Marine pollutant: No 14.6. Special precautions for user Special precautions: No special precautions. Tunnel code: E Transport category: 3 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

1-(DIPHENYLMETHYL)AZETIDINE-3-CARBONITRILE

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:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
	H314: Causes severe skin burns and eye damage.
	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
	R34: Causes burns.
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