

2,7-DIAZASPIRO[3.5]NONANE, N2-BOC PROTECTED

Page: 1

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

1.1. Product identifier

Product name: 2,7-DIAZASPIRO[3.5]NONANE, N2-BOC PROTECTED

CAS number: 236406-55-6

Product code: OR308113

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:	Xn: R22; Xi: R36/37/38; -: R52/53	
Classification under CLP:	Acute Tox. 4: H302; Eye Irrit. 2: H319; Aquatic Chronic 3: H412; Skin Irrit. 2: H315; STOT	
	SE 3: H335	
Nost important adverse effects:	Harmful if swallowed. Irritating to eyes, respiratory system and skin. Harmful to aquatic	
	organisms, may cause long-term adverse effects in the aquatic environment.	
2.2. Label elements		
Label elements under CLP:		
Hazard statements:	H302: Harmful if swallowed.	
	H315: Causes skin irritation.	
	H319: Causes serious eye irritation.	
	H335: May cause respiratory irritation.	
	H412: Harmful to aquatic life with long lasting effects.	
Signal words:	Warning	

2,7-DIAZASPIRO[3.5]NONANE, N2-BOC PROTECTED

 Page: 2

 Hazard pictograms:
 GHS07: Exclamation mark

 Image: 2

 Precautionary statements:
 P273: Avoid release to the environment.

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

 Label elements under CHIP:

 Hazard symbols:

 Hazard symbols:

 Risk phrases:

 R22: Harmful if swallowed.

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

 R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

 23. Other hazards

 PBT:

 This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2,7-DIAZASPIRO[3.5]NONANE, N2-BOC PROTECTED

CAS number: 236406-55-6

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. 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. 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.		

2,7-DIAZASPIRO[3.5]NONANE, N2-BOC PROTECTED

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 (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 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.

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.

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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. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

2,7-DIAZASPIRO[3.5]NONANE, N2-BOC PROTECTED

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL / PNEC No data available.

8.2. Exposure controls				
Engineering measures:	Ensure there is sufficient ventilation of the area. The floor of the storage room must be			
	impermeable to prevent the escape of liquids.			
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:	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: Solid

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.

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).

2,7-DIAZASPIRO[3.5]NONANE, N2-BOC PROTECTED

Page: 5

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

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

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.

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms. Long lasting effects.

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.

2,7-DIAZASPIRO[3.5]NONANE, N2-BOC PROTECTED

Page: 6

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: UNnone

14.2. UN proper shipping name

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

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.
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	Chemistry Development, Inc (ACD/Labs).
	http://www.acdlabs.com/products/pc_admet/tox/tox/
Phrases used in s.2 and 3:	H302: Harmful if swallowed.
	H315: Causes skin irritation.
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2,7-DIAZASPIRO[3.5]NONANE, N2-BOC PROTECTED

R22: Harmful if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 at the date of its publication, but should not be considered to be all inclusive. It should be used only as a guide for safe handling, storage, transportation and disposal. We cannot guarantee that the hazards detailed in this document are the only hazards that exist for this product. This is not a warranty and Apollo Scientific Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.