

2,5-DIAZASPIRO[3.4]OCTANE, N2-BOC PROTECTED

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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: 2,5-DIAZASPIRO[3.4]OCTANE, N2-BOC PROTECTED

CAS number: 1086398-02-8

Product code: OR16708

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 sub	stance or mixture
Classification under CHIP:	Xn: R20/21/22; Xi: R36/37/38
Classification under CLP:	Acute Tox. 4: H302+312+332; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315
Most important adverse effects:	Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory
	system and skin.

#### 2.2. Label elements

Label elements under CLP:	
Hazard statements:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark



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 Precautionary statements:
 P260: Do not breathe dust.

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

 P312: Call a POISON CENTER or doctor if you feel unwell.

 Label elements under CHIP:

 Hazard symbols:

 Harmful.

**Risk phrases:** R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. 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

4.2. Most

Chemical identity: 2,5-DIAZASPIRO[3.4]OCTANE, N2-BOC PROTECTED

CAS number: 1086398-02-8

## 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.
t important symptom	s and effects, both acute and delayed
Skin contact:	There may be irritation and redness at the site of contact.
Okin contact.	mere may be imation and requess 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

#### 5.1. Extinguishing media

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

surrounding fire should be used.

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5.2. Special hazards arising f	rom 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.	
ection 6: Accidental release	e measures	
6.1. Personal precautions, pr	otective 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 precautio	ns	
Environmental precautions:	Do not discharge into drains or rivers.	
6.3. Methods and material for	r 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 section	ons	
ection 7: Handling and stor	age	
7.1. Precautions for safe han	dling	
	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 stora	ge, including any incompatibilities	
-	Store in cool, well ventilated area. Keep container tightly closed. Must only be kept in original packaging.	
Specific end use(s):	No data available.	
ection 8: Exposure controls	s/personal protection	
8.1. Control parameters		
Workplace exposure limits:	No data available.	

**DNEL / PNEC** No data available.

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# 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: 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).

#### 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

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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.
Other information:	High hazard Class III chemical : assigned according to Cramer decision tree with
	extensions (predicted *) Structural alert for genotoxic carcinogenicity. (predicted *)

#### Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

#### 12.2. Persistence and degradability

Persistence and degradability: Persistent chemical (predicted \*)

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 metho	ds
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 inform	nation

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	P
I.1. UN number	
UN number:	UNnone
4.2. UN proper shipping nar	ne
Shipping name:	NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT
	REGULATIONS.
4.3. Transport hazard class(	es)
4.4. Packing group	
4.5. Environmental hazards	
Environmentally hazardous:	No Marine pollutant: No
4.6. Special precautions for	user
ction 15: Regulatory inform	nation
5.1. Safety, health and envir	onmental regulations/legislation specific for the substance or mixture
5.2. Chemical Safety Assess	sment
	A chemical safety assessment has not been carried out for the substance or the mixture
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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.