

5-BROMO-2,3-DIFLUOROANISOLE

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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: 5-BROMO-2,3-DIFLUOROANISOLE

CAS number: 261762-35-0

Product code: PC8472

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: Xi: R36/37/38

### Classification under CLP: STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315

Most important adverse effects: Irritating to eyes, respiratory system and skin.

### 2.2. Label elements

Label elements under CLP:

Hazard statements: 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:
 P261: Avoid breathing dust.

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

 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Label elements under CHIP:

Hazard symbols: Irritant.



Risk phrases: R36/37/38: Irritating to eyes, respiratory system and skin.Safety phrases: S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

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: 5-BROMO-2,3-DIFLUOROANISOLE

#### 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. Wash immediately with plenty of soap and water.

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

Ingestion: Wash out mouth with water. 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.

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

cause coughing or wheezing.

### 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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#### 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.

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. Light Sensitive.

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.

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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: Crystals

Colour: White

Solubility in water: Insoluble

Melting point/range °C: 33-36

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. Light.

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. Hydrogen

bromide gas (HBr). Hydrogen fluoride (HF).

### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

#### Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

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STOT-single exposure		INH	Based on test data	
Symptoms / routes of exposur	е			
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	s of the mouth and throat.	
Inhalation:	There may	be irritation of the throat v	with a feeling of tightness in the chest. Exposure may	
	cause cou	ghing or wheezing.		
Section 12: Ecological information	ation			
12.1. Toxicity				
Ecotoxicity values:	No data av	ailable.		
12.2. Persistence and degrada	bility			
Persistence and degradability:	No data av	ailable.		
12.3. Bioaccumulative potentia	ıl			
Bioaccumulative potential:	No data av	ailable.		
12.4. Mobility in soil				
Mobility:	No data av	ailable.		
12.5. Results of PBT and vPvB	assessmer	nt		
PBT identification:	This substa	ance is not identified as a	PBT substance.	
12.6. Other adverse effects				
Other adverse effects:	No data av	ailable.		
Section 13: Disposal consider	ations			
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 comp	liance with local and national regulations Observe	
	all federal,	state and local environme	ental regulations.	
NB:	The user's	attention is drawn to the p	possible existence of regional or national	
	regulations	regarding disposal.		
Section 14: Transport informa	tion			

## 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.

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14.3. Transport hazard class(es	3)		
14.4. Packing group			
14.5. Environmental hazards			
Environmentally hazardous:	No Marine pollutant: No		
14.6. Special precautions for us	Ser		
Section 15: Regulatory information	ation		
	mental regulations/legislation specific for the substance or mixture		
15.2. Chemical Safety Assessm	lent		
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 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:	H315: Causes skin irritation.		
	H319: Causes serious eye irritation.		
	H335: May cause respiratory irritation.		
	R36/37/38: Irritating to eyes, respiratory system and skin.		
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