

4-BROMO-2,6-DIFLUOROANISOLE

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

1.1. Product identifier

Product name: 4-BROMO-2,6-DIFLUOROANISOLE

CAS number: 104197-14-0

Product code: PC1694

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 vapours.

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

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

 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.

 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 4-BROMO-2,6-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. Use water spray to cool containers.

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5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx). Hydrogen

bromide (HBr). Hydrogen fluoride (HF).

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.

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.

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. 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: Not applicable.

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.

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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: Liquid

Colour: Colourless

Solubility in water: Insoluble

Boiling point/range ℃: 100@15mmHg

Relative density: 1.65

9.2. Other information

Other information: Not applicable.

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). Nitrogen oxides (NOx). 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 exposure	Э				
Skin contact:	There may	be irritation and redness	at the site of contact.		
			. The eyes may water profusely.		
Ingestion:	There may	be soreness and rednes	s of the mouth and throat.		
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may				
	cause cou	ghing or wheezing.			
Section 12: Ecological informa	tion				
12.1. Toxicity					
Ecotoxicity values:	Not applica	able.			
12.2. Persistence and degrada	bility				
Persistence and degradability:	No data av	ailable.			
12.3. Bioaccumulative potentia	l				
Bioaccumulative potential:	No data av	ailable.			
12.4. Mobility in soil					
Mobility:	No data av	ailable.			
12.5. Results of PBT and vPvB assessment					
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 considera	ations				
13.1. Waste treatment methods	5				
Disposal operations:	MATERIAL	SHOULD BE DISPOSEI	O 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	possible existence of regional or national		
	regulations	regarding disposal.			
Section 14: Transport information	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			
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		
15.1. Safety. health and enviror	mental regulations/legislation specific for the substance or mixture		
-			
15.2. Chemical Safety Assessm	ient		
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:			
	H319: Causes serious eye irritation.		
	H335: May cause respiratory irritation. R36/37/38: Irritating to eyes, respiratory system and skin.		
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