

4-BROMO-2-FLUORO-6-NITROANILINE

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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: 4-BROMO-2-FLUORO-6-NITROANILINE

CAS number: 517920-70-6

Product code: PC5180

Synonyms: 2-AMINO-5-BROMO-3-FLUORONITROBENZENE

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: R20/21/22

Classification under CLP: Acute Tox. 4: H302+312+332

Most important adverse effects: Harmful by inhalation, in contact with skin and if swallowed.

2.2. Label elements

Label elements under CLP:

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

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



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

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

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 Label elements under CHIP:

 Hazard symbols:
 Harmful.

 Hazard symbols:
 Filt

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

 Safety phrases:
 S22: Do not breathe dust.

 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

 S28: After contact with skin, wash immediately with plenty of water.

 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).

 S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 4-BROMO-2-FLUORO-6-NITROANILINE

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. If conscious, give half a litre of water				
	to drink immediately. 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.

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

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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.

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.

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.

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.

Recommended storage temp 2-8 °C.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

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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. 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: 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. Nitrogen oxides

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

Section 11: Toxicological information

11.1. Information on toxicological effects

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	Relevant hazards for substance:							
	Hazard		Route	Basis				
Acute toxicity (ac. tox. 4)			INH DRM ING	Based on test data				
S	ymptoms / routes of exposure	Э						
			be irritation and redness at	the site of contact				
		-		he eyes may water profusely.				
			of the mouth and throat. Nausea and stomach					
	9	-	occur. There may be vomitir					
			-	th a feeling of tightness in the chest.				
Section 12: Ecological information								
12	2.1. Toxicity							
	Ecotoxicity values:	Not applica	able.					
12	2.2. Persistence and degradal	bility						
Pe	ersistence and degradability:	No data available.						
12	12.3. Bioaccumulative potential							
	Bioaccumulative potential:	No data available.						
12	2.4. Mobility in soil							
	Mobility:	No data av	ailable.					
12	12.5. Results of PBT and vPvB assessment							
	PBT identification:	1: This substance is not identified as a PBT substance.						
12	2.6. Other adverse effects							
	Other adverse effects:	No data av	vailable.					
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

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14.2. UN proper shipping name			
Shipping name:	TOXIC SOLID, ORGANIC, N.O.S.		
14.3. Transport hazard class(es)		
Transport class:	6.1		
14.4. Packing group			
Packing group:	III		
14.5. Environmental hazards			
Environmentally hazardous:	No Marine pollutant: No		
14.6. Special precautions for us	er		
Tunnel code:	E		
Transport category:	2		
Section 15: Regulatory informa	tion		
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture		
15.2. Chemical Safety Assessm	ent		
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			7
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No		
other information.			
	* 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.		
	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.		
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		
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cannot guarantee that the hazards detailed in this document are the only hazards that

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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.