

5-BROMO-4-CHLORO-7H-PYRROLO[2,3-D]PYRIMIDINE

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

## 1.1. Product identifier

Product name: 5-BROMO-4-CHLORO-7H-PYRROLO[2,3-D]PYRIMIDINE

CAS number: 22276-95-5

Product code: OR17052

Synonyms: 7-BROMO-6-CHLORO-7-DEAZAPURINE

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: T: R25; Xi: R37/38

Classification under CLP: Acute Tox. 3: H301; Skin Irrit. 2: H315; STOT SE 3: H335

Most important adverse effects: Toxic if swallowed. Irritating to respiratory system and skin.

#### 2.2. Label elements

Label elements under CLP:

Hazard statements: H301: Toxic if swallowed.

H315: Causes skin irritation.

H335: May cause respiratory irritation.

Signal words: Danger

Hazard pictograms: GHS06: Skull and crossbones



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Precautionary statements:	P271: Use only outdoors or in a well-ventilated area.	
	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:	Toxic.	
Risk phrases:	R25: Toxic if swallowed.	
	R37/38: Irritating to respiratory system and skin.	
Safety phrases:	S22: Do not breathe dust.	
	S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.	
	S60: This material and its container must be disposed of as hazardous waste.	
2.3. Other hazards		
DDT.		

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

# Section 3: Composition/information on ingredients

## 3.1. Substances

Chemical identity: 5-BROMO-4-CHLORO-7H-PYRROLO[2,3-D]PYRIMIDINE

# 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. Transfer to hospital if there are burns or symptoms of poisoning.
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist
	examination.
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water
	to drink immediately. If unconscious, check for breathing and apply artificial respiration if
	necessary. If unconscious and breathing is OK, place in the recovery position. Transfer
	to hospital as soon as possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If
	conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK,
	place in the recovery position. If unconscious, check for breathing and apply artificial
	respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide
	oxygen if available. Transfer to hospital as soon as possible.
4.2. Most important symptoms and effects, both acute and delayed	

**Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

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**Eye contact:** There may be severe pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

#### 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:** Toxic. In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx). Hydrogen bromide (HBr). Hydrogen chloride (HCl).

#### 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: Notify the police and fire brigade immediately. 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. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust.

#### 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:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. 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 exhaust ventilation of the area.

Avoid the formation or spread of dust in the air. Only use in fume hood.

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7.2. Conditions for safe storage	e, 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.	
Section 8: Exposure controls/p	personal protection	
8.1. Control parameters		
	••••	
Workplace exposure limits:	Not applicable.	
8.2. Exposure controls		
Engineering measures:	Ensure there is exhaust ventilation of the area.	
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency. Particle	
	filter class P1 (EN143).	
Hand protection:	Protective gloves.	
Eye protection:	Safety glasses with side-shields. Ensure eye bath is to hand.	
Skin protection:	Protective clothing.	
Section 9: Physical and chemic	cal properties	
9.1. Information on basic physi	cal and chemical properties	
State:	Solid	
Melting point/range °C:		
9.2. Other information		
Other information:	Not applicable.	
Section 10: Stability and reacti	vity	
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 r	eactions	
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.

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#### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen

chloride (HCI). Nitrogen oxides (NOx). Hydrogen bromide gas (HBr).

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
STOT-single exposure	INH	Based on test data

### Symptoms / routes of exposure

Skin contact:	contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain	
	may occur at the site of contact. Absorption through the skin may be fatal.	
Eye contact:	There may be severe pain. The eyes may water profusely.	
Ingestion:	There may be soreness and redness of the mouth and throat. There may be vomiting.	
	Convulsions may occur. There may be loss of consciousness.	
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Absorption	
	through the lungs can occur causing symptoms similar to those of ingestion.	
	Convulsions may occur. There may be loss of consciousness.	

## Section 12: Ecological information

## 12.1. Toxicity

Ecotoxicity values: Not applicable.

### 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: No data available.

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	Section 13: Disposal considera	tions
	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 informat	ion
	14.1. UN number	
1	UN number:	I IN/2811
ĺ	14.2. UN proper shipping name	
I		
I		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
	Environmentally hazardous: 14.6. Special precautions for us	
	14.6. Special precautions for us	ser
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	14.6. Special precautions for us Tunnel code: Transport category:	E 2
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	14.6. Special precautions for us Tunnel code: Transport category: Section 15: Regulatory informa 15.1. Safety, health and environ 15.2. Chemical Safety Assessm Chemical safety assessment: Section 16: Other information Other information	E 2 tion mental regulations/legislation specific for the substance or mixture ent A chemical safety assessment has not been carried out for the substance or the mixture by the supplier. This safety data sheet is prepared in accordance with Commission Regulation (EU) No
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# 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:	H301: Toxic if swallowed.
	H315: Causes skin irritation.
	H335: May cause respiratory irritation.
	R25: Toxic if swallowed.
	R37/38: Irritating to respiratory system and skin.
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