

5-BROMOPYRIDINE-3,4-DIAMINE

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Compilation date: 03/03/2011

Revision date: 05/09/2014

Revision No: 2

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

1.1. Product identifier

Product name: 5-BROMOPYRIDINE-3,4-DIAMINE

CAS number: 4635-08-9

Product code: OR61210

Synonyms: 3-BROMO-4,5-DIAMINOPYRIDINE

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: R22; Xi: R36/37/38 Classification under CLP: Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Sens. 1: H317

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

2.2. Label elements

Label elements under CLP:

Hazard statements: H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Signal words: Warning

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Hazard pictograms:	GHS07: Exclamation mark
Precautionary statements:	P261: Avoid breathing dust.
	P280: Wear protective gloves/protective clothing/eye protection.
	P312: Call a POISON CENTER or doctor if you feel unwell.
Label elements under CHIP:	
Hazard symbols:	Harmful.
	×
Risk phrases:	R22: Harmful if swallowed.
	R36/37/38: Irritating to eyes, respiratory system and skin.
Safety phrases:	S22: Do not breathe dust.
	S36/37: Wear suitable protective clothing and gloves.
	S38: In case of insufficient ventilation, wear suitable respiratory equipment.
	S45: In case of accident or if you feel unwell, seek medical advice immediately (show
	the label where possible).
	S28: After contact with skin, wash immediately with plenty of.
	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.
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-BROMOPYRIDINE-3,4-DIAMINE

CAS number: 4635-08-9

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. If irritation persists seek medical attention
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.

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4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact. An itchy rash may occur 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.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides (NOx). Hydrogen bromide (HBr).

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.

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7.2. Conditions for safe storage	e, including any incompatibilities	
Storage conditions:	Keep container tightly closed. Light Sensitive. Store under Argon. 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:	No data available.	
DNEL / PNEC	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.	
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

Melting point/range °C: 140-142

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.

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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).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
Respiratory/skin sensitisation	DRM	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. An itchy rash may occur 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.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

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.

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12.6. Other adverse effects

Other adverse effects: No data available.

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

UN number: UNnone

14.2. UN proper shipping name

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

Marine pollutant: No

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

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-

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	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/
Phrases used in s.2 and 3:	H302: Harmful if swallowed.
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	H317: May cause an allergic skin reaction.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
	R22: Harmful if swallowed.
	R36/37/38: Irritating to eyes, respiratory system and skin.
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