

3-BROMOISOXAZOLE

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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: 3-BROMOISOXAZOLE

CAS number: 111454-71-8

Product code: OR46500

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

C				
2.1. Classification of the substance or mixture				
Classification under CHIP:	-: R10; Xn: R20/21/22			
Classification under CLP:	Agute Tay, 4: H202, 212, 222; Elem Lig. 2: H226			
Classification under CLF.	Acute Tox. 4: H302+312+332; Flam. Liq. 3: H226			
Most important adverse effects:	Flammable. Harmful by inhalation, in contact with skin and if swallowed.			
-				
2.2. Label elements				
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Label elements under CLP:	H226: Flammable liquid and vapour			
Label elements under CLP:	H226: Flammable liquid and vapour.			
Label elements under CLP:	H226: Flammable liquid and vapour. H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.			

Signal words: Warning

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark



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Precautionary statements:	ts: P280: Wear protective gloves/protective clothing/eye protection/face protection.		
	P210: Keep away from heat/sparks/open flames/hot surfaces No smoking.		
Label elements under CHIP:			
Hazard symbols:	Harmful.		
	×		
Risk phrases:	R10: Flammable.		
	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.		
Safety phrases:	fety phrases: S16: Keep away from sources of ignition - No smoking.		
	S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.		
	S47: Keep at temperature not exceeding °C.		
	S45: In case of accident or if you feel unwell, seek medical advice immediately (show		
	the label where possible).		
2.3. Other hazards			
Other hazards:	In use, may form flammable / explosive vapour-air mixture.		
PBT:	This substance is not identified as a PBT substance.		
Section 3: Composition/inform	nation on ingredients		
3.1. Substances			
Chemical identity:	3-BROMOISOXAZOLE		
Section 4: First aid measures			
4.1. Description of first aid mea	asures		
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.		
Skill colliact.	Drench the affected skin with running water for 10 minutes or longer if substance is still		
	on skin. Consult a doctor.		
Eve contact:			
	Bathe the eye with running water for 15 minutes. Consult a doctor.		
ingestion:	Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water		

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.

to drink immediately. Consult a doctor.

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. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Flammable. Forms explosive air-vapour mixture. In combustion emits toxic fumes. Carbon oxides. 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. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

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. Do not use equipment in clean-up procedure which may produce sparks.

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.

Smoking is forbidden. Use non-sparking tools. 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. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition. Light Sensitive.

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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. Ensure lighting and electrical	
	equipment are not a source of ignition.	
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.	
	Impermeable gloves.	
	Safety glasses. Ensure eye bath is to hand.	
	Impermeable protective clothing.	
Section 9: Physical and chemi	ical properties	
9.1. Information on basic physic	sical and chemical properties	
State:	Liquid	
Boiling point/range °C:	182-183 Flash point ℃: 55 - 60	
Boiling point/range℃: Relative density:		
Relative density:	1.812	
Relative density: 9.2. Other information	1.812 Not applicable.	
Relative density: 9.2. Other information Other information: Section 10: Stability and react	1.812 Not applicable.	
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Relative density: 9.2. Other information Other information: Section 10: Stability and reaction 10.1. Reactivity Reactivity: 10.2. Chemical stability Chemical stability: 10.3. Possibility of hazardous reaction	1.812 Not applicable. ivity Stable under recommended transport or storage conditions. Stable under normal conditions. Stable at room temperature.	
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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).

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Section 11: Toxicological information 11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Based on test data

Symptoms / routes of exposure

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.

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.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations:MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL REGULATIONSDisposal 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.

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Section 14: Transport information 14.1. UN number UN number: UN1993 14.2. UN proper shipping name Shipping name: FLAMMABLE LIQUID, N.O.S. 14.3. Transport hazard class(es) Transport class: 3 14.4. Packing group Packing group: III 14.5. Environmental hazards Environmentally hazardous: No Marine pollutant: 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 1994-2009 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: H226: Flammable liquid and vapour. H302+312+332: Harmful if swallowed, in contact with skin or if inhaled. R10: Flammable. 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

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