

3-AMINO-5-BROMOBENZONITRILE

Page: 1 Compilation date: 13/07/2011 Revision date: SAP

Revision No: 2

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

1.1. Product identifier

Product name: 3-AMINO-5-BROMOBENZONITRILE

CAS number: 49674-16-0

Product code: OR63032

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 CLP:	Acute Tox. 4: H302+312+332; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315
Classification under CHIP:	Xn: R20/21/22; Xi: R36/37/38
Most important adverse effects:	Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes
	serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:	
Hazard statements:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
	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:
 P271: Use only outdoors or in a well-ventilated area.

 P260: Do not breathe dust.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 3-AMINO-5-BROMOBENZONITRILE

CAS number: 49674-16-0

Section 4: First aid measures

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. Bathe the eye with running water for 15 minutes. Consult a doctor. Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.
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doctor.
nd effects, both acute and delayed
There may be irritation and redness at the site of contact.
There may be irritation and redness. The eyes may water profusely.
There may be soreness and redness of the mouth and throat. Nausea and stomach
pain may occur. There may be vomiting.
There may be irritation of the throat with a feeling of tightness in the chest.
medical attention and special treatment needed
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PS
- - r

Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used.

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5.2. Special hazards arising fro	m 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.		
ction 6: Accidental release n	neasures		
6.1. Personal precautions, prot	ective 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 c	ontainment and cleaning up		
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate		
	method.		
6.4. Reference to other section	3		
ction 7: Handling and storag	e		
7.1. Precautions for safe handli	ng		
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	e, including any incompatibilities		
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Light Sensitive. Air		
	sensitive. Store under Argon.		
Suitable packaging:	Must only be kept in original packaging.		
7.3. Specific end use(s)			
Specific end use(s):	No data available.		
ction 8: Exposure controls/p	ersonal protection		

8.1. Control parameters

Workplace exposure limits: No data available.

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DNEL/PNEC Values	
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 chemic	al properties
9.1. Information on basic physic	cal and chemical properties
State:	Solid
Melting point/range ℃:	124-125
9.2. Other information	
Other information:	No data available.
Section 10: Stability and reactiv	rity
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 re	eactions
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions.
10.4. Conditions to avoid	
Conditions to avoid:	Heat.
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).
Section 11: Toxicological inform	
11.1. Information on toxicologic	arenects

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Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	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.

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 product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods	
Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal
	company. 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.

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Sect	ion 14: Transport informati	on		
14	.1. UN number			
	UN number:	UN3439		
14	.2. UN proper shipping name			
	Shipping name:	NITRILES, SOLID, TOXIC, 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		
Sect	ion 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		
	<u>_</u>	A chemical safety assessment has not been carried out for the substance or the mixture		
,	Shemical salety assessment.	by the supplier.		
Sect	ion 16: Other information			
O	ther information			
		This safety data sheet is prepared in accordance with Commission Regulation (EU) No		
	Other information.	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 computational 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 s.3:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.		
		H315: Causes skin irritation.		
		H319: Causes serious eye irritation.		
		H335: May cause respiratory irritation.		

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R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin. **Legend to abbreviations:** PNEC = predicted no effect level DNEL = derived no effect level LD50 = median lethal dose LC50 = median lethal concentration EC50 = median effective concentration IC50 = median inhibitory concentration dw = dry weight bw = body weight cc = closed cupoc = open cup MUS = mouse GPG = guinea pig RBT = rabbit HAM = hamster HMN = humanMAM = mammal PGN = pigeon IVN = intravenous SCU = subcutaneous SKN = skin DRM = dermal OCC = ocular/corneal PCP = phycico-chemical properties 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 cannot guarantee that the hazards detailed in this document are the only hazards that 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.

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