

4-BROMO-2-METHOXYBENZOIC ACID

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Compilation date: 29/01/2010

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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-METHOXYBENZOIC ACID

**CAS number:** 72135-36-5

Product code: OR59811

Synonyms: 5-BROMO-2-CARBOXYANISOLE

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: R36/37/38
 Classification under CLP: Acute Tox. 3: H301; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315
 Most important adverse effects: Toxic if swallowed. Irritating to eyes, respiratory system and skin.

#### 2.2. Label elements

Label elements	under CLP:
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Hazard statements: H301: Toxic if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Signal words: Danger

Hazard pictograms: GHS06: Skull and crossbones



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

P309+311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor.

Label elements under CHIP:

Hazard symbols: Toxic.



 Risk phrases:
 R25: Toxic if swallowed.

 R36/37/38:
 Irritating to eyes, respiratory system and skin.

 Safety phrases:
 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).

# 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: 4-BROMO-2-METHOXYBENZOIC ACID

## 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:	Do not induce vomiting. If conscious, give half a litre of water to drink immediately. 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. Transfer to
	hospital as soon as possible.
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 pain and redness.
Ingestion:	There may be soreness and redness of the mouth and throat. Severe poisoning can
	cause unconsciousness and severe and persistent nausea and vomiting. Severe

poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can

cause vision to be blurred or blindness, severe headache and rapid gasping breathing.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption

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	through the lungs can occur causing symptoms similar to those of ingestion. Nausea	
	and stomach pain may occur.	
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.	
4.3. Indication of any immediat	e medical attention and special treatment needed	
Immediate / special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in	
	attendance.	
Section 5: Fire-fighting measu	res	
5.1. Extinguishing media		
Extinguishing media:	Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide,	
	dry chemical powder, foam.	
5.2. Special hazards arising fro	m the substance or mixture	
Exposure hazards:	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen	
	bromide (HBr).	
5.3. Advice for fire-fighters		
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact	
Advice for me-fighters.	with skin and eyes.	
	with order and by co.	
Section 6: Accidental release r	nageurae	
Section 6: Accidental release r	neasures	
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Handling requirements: Avoid the formation or spread of dust in the air. Ensure there is sufficient ventilation of

the area. Only use in fume hood.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Light Sensitive.

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.
 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: Powder

### Melting point/range °C: 155-159

Part.coeff. n-octanol/water: lof Pow:2.554

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.

Decomposition may occur on exposure to conditions or materials listed below.

### 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

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
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 pain and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing.

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. Nausea and stomach pain may occur.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

### 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.

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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: UN2811

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: |||

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

# 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

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# 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:	H301: Toxic if swallowed.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
	R25: Toxic if swallowed.
	R36/37/38: Irritating to eyes, respiratory system and skin.
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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