

2-BROMO-4-FLUOROPHENYLTHIOCYANATE

Page: 1

Compilation date: 17/03/2017

Revision No: 1

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

### 1.1. Product identifier

Product name: 2-BROMO-4-FLUOROPHENYLTHIOCYANATE

Product code: PC508005

## 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; Resp. Sens. 1A: H334; Skin Corr. 1B: H314; Skin Sens. 1A:
	H317
Most important adverse effects:	Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and
	eye damage. May cause an allergic skin reaction. May cause allergy or asthma
	symptoms or breathing difficulties if inhaled.
2.2. Label elements	
Label elements:	
Hazard statements:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
	H314: Causes severe skin burns and eye damage.
	H317: May cause an allergic skin reaction.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Signal words:	Danger
Hazard pictograms:	GHS05: Corrosion
	GHS07: Exclamation mark
	GHS08: Health hazard

#### 2-BROMO-4-FLUOROPHENYLTHIOCYANATE



 Precautionary statements:
 P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

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

 P301+312: IF SWALLOWED: Call a if you feel unwell.

## 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: 2-BROMO-4-FLUOROPHENYLTHIOCYANATE

### 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. Give 1 cup of water to drink every 10	
	minutes. 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	
	unconscious and breathing is OK, place in the recovery position. If conscious, ensure	
	the casualty sits or lies down. 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:	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.	
Eye contact:	Corneal burns may occur. May cause permanent damage.	
Ingestion:	Corrosive burns may appear around the lips. Blood may be vomited. There may be	
	bleeding from the mouth or nose.	

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

### 4.3. Indication of any immediate medical attention and special treatment needed

### Section 5: Fire-fighting measures

Page: 2

## 2-BROMO-4-FLUOROPHENYLTHIOCYANATE

		Page:
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 fro	m the substance or mixture	
Exposure hazarde:	Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.	
	Nitrogen oxides (NOx). Hydrogen fluoride (HF). Hydrogen bromide (HBr). Sulphur oxides	
	(SOx).	
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.	
ection 6: Accidental release n	neasures	
6.1. Personal precautions, prot	ective equipment and emergency procedures	
Personal precautions:	Notify the police and fire brigade immediately. 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	3	
Environmental precautions:	Do not discharge into drains or rivers.	
6.3. Methods and material for c	ontainment 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.	
C. 4. Deference to other costion		
6.4. Reference to other section	5	
ection 7: Handling and storag	je	
7.1. Precautions for safe handli	ing	
Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.	
nanunny requirements.		
	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	
	e, including any incompatibilities Store in a cool, well ventilated area. Keep container tightly closed. Light Sensitive.	
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Light Sensitive.	

Specific end use(s): No data available.

#### 2-BROMO-4-FLUOROPHENYLTHIOCYANATE

Page: 4

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

Workplace exposure limits: No data available.

#### **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:	Tightly fitting safety goggles. 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		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Viscosity:	No data available.		
Boiling point/range °C:	No data available.	Melting point/range °C:	No data available.
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point °C:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	No data available.
Relative density:	No data available.	pH:	No data available.
VOC g/I:	No data available.		

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.

#### 2-BROMO-4-FLUOROPHENYLTHIOCYANATE

### 10.4. Conditions to avoid

Conditions to avoid: Heat. Light. Moist air. Humidity.

### 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). Hydrogen fluoride (HF). Sulphur oxides (SOx) Nitrogen oxides (NOx).

### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

#### **Relevant hazards for product:**

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

### Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

#### 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.

#### 2-BROMO-4-FLUOROPHENYLTHIOCYANATE

Page: 6

#### 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.

## Section 14: Transport information

### 14.1. UN number

UN number: UN1759

14.2. UN proper shipping name

Shipping name: CORROSIVE SOLID, N.O.S.

#### 14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

#### 14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

#### 14.6. Special precautions for user

Tunnel code: E

Transport category: 3

### Section 15: Regulatory information

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

Specific regulations: Not applicable.

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

## 2-BROMO-4-FLUOROPHENYLTHIOCYANATE

Other information	
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
	* Data predicted using computational software. The OECD QSAR-Toolbox for grouping
	chemicals into categories. Developed by LMC bulgaria.
	http://echa.europa.eu/support/oecd-qsar-toolbox
	~ 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.
	H314: Causes severe skin burns and eye damage.
	H317: May cause an allergic skin reaction.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.