

4-BROMO-2,5-DIFLUOROBENZYL FLUORIDE

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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-2,5-DIFLUOROBENZYL FLUORIDE

CAS number: 2244083-92-7

Product code: PC27924

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 Itd

Units 3 & 4

Parkway

Denton

Manchester

M34 3SG

UK

Tel: 01616411420

Email: alan.myers@apolloscientific.co.uk

1.4. Emergency telephone number

Emergency tel: -

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CLP: Carc. 2: H351; Skin Corr. 1B: H314

Most important adverse effects: Causes severe skin burns and eye damage. Suspected of causing cancer.

### 2.2. Label elements

#### Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

H351: Suspected of causing cancer.

Hazard pictograms: GHS05: Corrosion

GHS08: Health hazard



Signal words: Danger

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Precautionary statements:	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water .

### 2.3. Other hazards

### Other hazards: Lachrymatory.

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

### Section 3: Composition/information on ingredients

### 3.1. Substances

Chemical identity: 4-BROMO-2,5-DIFLUOROBENZYL FLUORIDE CAS number: 2244083-92-7

### 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

[cont...]

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5.1. Extinguishing media	
Extinguishing modiou	Carbon diavida, dry chamical newdar, faam. Suitable avtinguishing madia far tha
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	n the substance or mixture
Exposure hazards:	Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
	Hydrogen bromide (HBr). Hydrogen fluoride (HF).
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 m	
6.1. Personal precautions, prote	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. Turn leaking containers leak-side up to prevent the
	escape of liquid.
6.2. Environmental precautions	
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
6.3. Methods and material for co	ontainment and cleaning up
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific
	substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage
	container for disposal by an appropriate method.
6.4. Reference to other sections	
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ection 7: Handling and storage	e
7.1. Precautions for safe handling	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 mists in the air. Only
	use in fume hood.
7.2. Conditions for safe storage	, including any incompatibilities
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Light Sensitive. Store
	at -20 ℃

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### 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: 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.
Hand protection:	Impermeable gloves.
Eye protection:	Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin protection:	Impermeable protective clothing.

### Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

State:	Liquid		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Viscosity:	No data available.		
Boiling point/range℃:	No data available. Melting point/ran	ge°C:	No data available.
Flammability limits %: lower:	No data available.	pper:	No data available.
Flash point °C:	No data available. Part.coeff. n-octanol/	vater:	No data available.
Autoflammability℃:	No data available. Vapour pres	sure:	No data available.
Relative density:	No data available.	pH:	No data available.
VOC g/l:	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.

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### 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.

#### 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).

### Section 11: Toxicological information

### 11.1. Information on toxicological effects

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

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Carcinogenicity		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.

### 4-BROMO-2,5-DIFLUOROBENZYL FLUORIDE

### 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.

### Section 14: Transport information

14.1. UN number

UN number: UN3265

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 2

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.

Marine pollutant: No

### 4-BROMO-2,5-DIFLUOROBENZYL FLUORIDE

### Section 16: Other information

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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:	H314: Causes severe skin burns and eye damage.
	H351: Suspected of causing cancer.
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