

2-BROMO-5-FLUORO-3-NITROBENZYL FLUORIDE

Page: 1 Compilation date: 07/08/2018 Revision date: 22/01/2021

Revision No: 2

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

## 1.1. Product identifier

Product name: 2-BROMO-5-FLUORO-3-NITROBENZYL FLUORIDE

CAS number: 1807004-68-7

Product code: PC27920

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: 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

#### 2-BROMO-5-FLUORO-3-NITROBENZYL FLUORIDE

 Precautionary statements:
 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: 2-BROMO-5-FLUORO-3-NITROBENZYL FLUORIDE

CAS number: 1807004-68-7

## 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

#### Section 5: Fire-fighting measures

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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	n the substance or mixture	
Exposure hazards:	Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.	
·	Nitrogen oxides (NOx). Hydrogen fluoride (HF). 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.	
ection 6: Accidental release m		
6.1. Personal precautions. prote	ctive equipment and emergency procedures	
• • •	Notify the police and fire brigade immediately. If outside keep bystanders upwind and	
reisonai piecautions.	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		
	Do not discharge into drains or rivers.	
-		
6.3. Methods and material for co	mamment 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.	
6.4. Reference to other sections		
ection 7: Handling and storage	9	
7.1. Precautions for safe handlin	ng	
Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.	
5	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	including any incompatibilities	
<del>.</del>	Chara in a goal well wantilated area. Keen container tightly aloged Otars at 00 00	
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Store at -20 $^{\circ}$ C Must only be kept in original packaging.	

Specific end use(s): No data available.

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## 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

	Ensure there is sufficient ventilation of the area. 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:	Low-melting solid.		
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/range °C:	No data available.
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point ℃:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability℃:	No data available.	Vapour pressure:	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.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

### 2-BROMO-5-FLUORO-3-NITROBENZYL FLUORIDE

### 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. Nitrogen oxides

(NOx). 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.

12.5. Results of PBT and vPvB assessment

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

#### 2-BROMO-5-FLUORO-3-NITROBENZYL FLUORIDE

# 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: UN3261 14.2. UN proper shipping name Shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, 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.

## 2-BROMO-5-FLUORO-3-NITROBENZYL 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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	by those who have been fully trained in safety, laboratory and chemical handling
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