

3-CHLORO-4-FLUOROBENZYL BROMIDE

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Revision No: 3

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

1.1. Product identifier

Product name: 3-CHLORO-4-FLUOROBENZYL BROMIDE

CAS number: 192702-01-5

Product code: PC0079

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: Xn: R22; C: R34

Classification under CLP: Acute Tox. 4: H302; Skin Corr. 1B: H314

Most important adverse effects: Harmful if swallowed. Causes burns.

2.2. Label elements

Label elements under CLP:	
Hazard statements:	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
Signal words:	Danger
Hazard pictograms:	GHS05: Corrosion

GHS07: Exclamation mark



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Precautionary statements:	P260: Do not breathe vapours.	
	P280: Wear protective gloves/protective clothing/eye protection/face protection.	
	P312: Call a POISON CENTER or doctor if you feel unwell.	
Label elements under CHIP:		
Hazard symbols:	Corrosive.	
Risk phrases:	R22: Harmful if swallowed.	
	R34: Causes burns.	
Safety phrases:	S3/7: Keep container tightly closed in a cool place.	
	S23: Do not breathe vapour.	
	S26: In case of contact with eyes, rinse immediately with plenty of water and seek	
	medical advice.	
	S28: After contact with skin, wash immediately with plenty of water.	
	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		

2.3. Other hazards

Other hazards: Lachrymatory.

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 3-CHLORO-4-FLUOROBENZYL BROMIDE

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.

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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. The eyes may water
	profusely.
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 immedia	te medical attention and special treatment needed
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Section 5: Fire-fighting measu	res
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	
Exposure hazards:	Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
	Hydrogen bromide (HBr). Hydrogen chloride (HCl). 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	measures
6.1. Personal precautions, pro	tective 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 precaution	S
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
6.3. Methods and material for	containment 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 dispessal by an appropriate method

container for disposal by an appropriate method.

6.4. Reference to other sections

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Section 7: Handling and storage	qe
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7.1. Precautions for safe hand	ing
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 storag	ge, including any incompatibilities
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed. Light Sensitive.
	Recommended storage temp 2-8 °C.
Suitable packaging:	Must only be kept in original packaging.
7.3. Specific end use(s)	
Specific end use(s):	Na data availabla
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Section 8: Exposure controls/	personal protection
8.1. Control parameters	
Workplace exposure limits:	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 chemi	ical properties
9.1. Information on basic phys	ical and chemical properties
State:	Liquid
	Lachrymatory
Boiling point/range℃:	
9.2. Other information	
Other information:	
Section 10: Stability and react	livity

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 chloride (HCI). Hydrogen fluoride (HF).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

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

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. The eyes may water profusely.

- **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.

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12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

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: UN3265

14.2. UN proper shipping name

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

(3-Chloro-4-fluorobenzyl bromide)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: 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

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.

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Section 16: Other information

Other information	
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 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:	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
	R22: Harmful if swallowed.
	R34: Causes burns.
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