

4-CHLORO-2-FLUOROBENZYL BROMIDE, TECH

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Compilation date: 06/07/2007

Revision date: 24/07/2012

Revision No: 2

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

1.1. Product identifier

Product name: 4-CHLORO-2-FLUOROBENZYL BROMIDE, TECH

CAS number: 71916-82-0

Product code: PC2119

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: C: R34

Classification under CLP: Skin Corr. 1B: H314

Most important adverse effects: Causes burns.

2.2. Label elements

Label elements under CLP:

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

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



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.

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Label elements under CHIP:	
Hazard symbols:	Corrosive.
Risk phrases:	R34: Causes burns.
Safety phrases:	S3/7: Keep container tightly closed in a cool place.
	S23: Do not breathe Dust / 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	

Other hazards: Lachrymatory.

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 4-CHLORO-2-FLUOROBENZYL BROMIDE, TECH

Section 4: First aid measures

4.1. Description	n of first	t aid measures
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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.

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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 immediat	e medical attention and special treatment needed		
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	om the substance or mixture		
Exposure hazards:	Corrosive. In combustion emits toxic fumes. Carbon oxides. 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.

Section 6: Accidental release measures

6.1. Personal precautions, protective 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 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 disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

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.

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7.2. Conditions for safe storage	e, including any incompatibilities	
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed. Light Sensitive. Moisture	
-	sensitive. Store under Argon.	
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/p	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.	
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 chemic	cal properties	
9.1. Information on basic physi	ical and chemical properties	
State:	Liquid	
Colour:	Colourless	
Odour:	Lachrymatory	
Solubility in water:	Not miscible	
Boiling point/range °C:	114-118@15mmHgRelative density:1.65	
9.2. Other information		
Other information:	Not applicable.	
Section 10: Stability and reacti	ivity	
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.

10.4. Conditions to avoid

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

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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

chloride (HCl). Hydrogen bromide gas (HBr). Hydrogen fluoride (HF).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
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.

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: 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.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

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13.1. Waste treatment methods Disposal operations: MTERIAL 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: Shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. 14.3. Transport class: 8 14.4. Packing group: I Packing group: II 14.5. Environmentally hazardous: No Marine pollutant: No 14.6. Special precautions for user Image attention information 15.1. Stety, health and environmental regulations/legislation specific for the substance or mixture by the supplier. Section 15: Other information 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 - Other information Other information - To			Page:	6
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4-CHLORO-2-FLUOROBENZYL BROMIDE, TECH

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: H314: Causes severe skin burns and eye damage.

R34: Causes burns.

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