

4-(2-BROMOETHYL)TETRAHYDRO-2H-PYRAN

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Revision No: 1

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

1.1. Product identifier

Product name: 4-(2-BROMOETHYL)TETRAHYDRO-2H-PYRAN

CAS number: 4677-20-7

Product code: OR451047

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: Skin Corr. 1B: H314

Most important adverse effects: Causes severe skin burns and eye damage.

2.2. Label elements

Label elements:

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

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P310: Immediately call a POISON CENTER/doctor/.

P260: Do not breathe vapours.

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

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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: 4-(2-BROMOETHYL)TETRAHYDRO-2H-PYRAN

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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

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 the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen bromide (HBr).

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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 r	neasures		
6.1. Personal precautions, prot	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 precautions	\$		
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.		
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. Absorb into dry earth or sand. Transfer to a closable, labelled salvage		
	container for disposal by an appropriate method.		
6.4. Reference to other section			
			_
Section 7: Handling and storage	je		
7.1. Precautions for safe handl	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 storage	e, including any incompatibilities		
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Light Sensitive.		_
-	Must only be kept in original packaging.		
7.3. Specific end use(s)			
· · · · · ·	·····		
Specific end use(s):			
Section 8: Exposure controls/p	ersonal protection		
8.1. Control parameters			
Workplace exposure limits:	No data available.		
DNEL/PNEC Values			

DNEL / PNEC No data available.

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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

Colour: Colourless

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.

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).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated

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	Serious eye damage/irritation		OPT	Hazardous: calculated		
C						
3	ymptoms / routes of exposure					
				ration will occur if treatment is not immediate.		
	-		irns may occur. May cause p	-		
	Ingestion:			e lips. Blood may be vomited. There may be		
		-	om the mouth or nose.			
	Inhalation:	-		a burning sensation in the throat. Exposure may		
		cause coughing or wheezing.				
Sec	tion 12: Ecological informa	ition				
12	2.1. Toxicity					
	Ecotoxicity values: No data available.					
12	2.2. Persistence and degrada	bility				
Pe	ersistence and degradability:	No data av	ailable.			
12	2.3. Bioaccumulative potentia	ł				
	Bioaccumulative potential:	No data av	lo data available.			
12	2.4. Mobility in soil	ility in soil				
	Mobility:	No data available.				
12	12.5. Results of PBT and vPvB assessment					
	PBT identification:	This produ	his product is not identified as a PBT/vPvB substance.			
12	12.6. Other adverse effects					
	Other adverse effects:	No data av	ailable.			
Sec	tion 13: Disposal considera	ations				
1:	3.1. Waste treatment methods	3				
	Disposal operations:	Transfer to	a suitable container and ar	range for collection by specialised disposal		
				SPOSED 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			nce with local and national regulations Observe			
	· · · · · ·	•	state and local environment	-		
	NB:			ssible existence of regional or national		

regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3265

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14.2. UN proper shipping name				
Shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.			
14.3. Transport hazard class(es				
Transport class:				
14.4. Packing group	0			
Packing group:	III		_	
14.5. Environmental hazards				
Environmentally hazardous:	No Marine pollutant: No			
14.6. Special precautions for us	ser			
Tunnel code:	E			
Transport category:	3			
Section 15: Regulatory information	ation			
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture			
Specific regulations:				
	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				
Other information				
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.			
	* 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/			
	H314: Causes severe skin burns and eye damage.			
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	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

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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.