

2-(3-BROMOPROPOXY)TETRAHYDRO-2H-PYRAN

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

## 1.1. Product identifier

Product name: 2-(3-BROMOPROPOXY)TETRAHYDRO-2H-PYRAN

CAS number: 33821-94-2

Product code: OR24692

Synonyms: (STABILISED WITH POTASSIUM CARBONATE)

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: Xi: R36/37/38 Classification under CLP: STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315 Most important adverse effects: Irritating to eyes, respiratory system and skin. 2.2. Label elements

 Laber	ciements	

Label elements under CLP:

Hazard statements: H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



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Precautionary statements:	P261: Avoid breathing vapours.		
	P271: Use only outdoors or in a well-ventilated area.		
	P280: Wear protective gloves/protective clothing/eye protection/face protection.		
Label elements under CHIP:			
Hazard symbols:	Irritant.		
	×		
Risk phrases:	R36/37/38: Irritating to eyes, respiratory system and skin.		
Safety phrases:	S26: In case of contact with eyes, rinse immediately with plenty of water and seek		
	medical advice.		
	S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.		
2.3. Other hazards			

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

## Section 3: Composition/information on ingredients

## 3.1. Substances

Chemical identity: 2-(3-BROMOPROPOXY)TETRAHYDRO-2H-PYRAN

## 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. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

## 4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. 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.

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5.2. Special hazards arising fro	m the substance or mixture		
Exposure hazards:	In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx). Hydrogen bromide (HBr).		
5.2 Advice for fire fighters			
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	ective equipment and emergency procedures		
Personal precautions:	Refer to section 8 of SDS for personal protection details. If outside do not approach from		
	downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. 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:	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	S		
Ocation 7. Handling and stores			
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 cool, well ventilated area. Keep container tightly closed. Light Sensitive. Moisture		
Storage conditions.	sensitive. Store under Argon. Store at -20 $^{\circ}$ C		
Suitable packaging:	Must only be kept in original 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.		

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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: Protective gloves. Eye protection: Safety glasses. 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: Liquid **Oxidising:** Non-oxidising (by EC criteria) Boiling point/range ℃: 64.5@0.8mmHg Flash point °C: 106 Relative density: 1.317 9.2. Other information Other information: Not applicable. 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. Moist air. Humidity.

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). Nitrogen oxides (NOx).

## Section 11: Toxicological information

11.1. Information on toxicological effects

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#### Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

#### Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. 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

## 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

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14.1. UN number			
UN number:	UNnone		
14.2. UN proper shipping name			
Shipping name:	NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.		
14.3. Transport hazard class(es			
14.4. Packing group			
14.5. Environmental hazards			
Environmentally hazardous:	No Marine pollutant: No		
14.6. Special precautions for us			
ection 15: Regulatory information	ition		
15.1. Safety, health and enviror	mental regulations/legislation specific for the substance or mixture		
15.2. Chemical Safety Assessm	ent		
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture		
	by the supplier.		
ction 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:	H315: Causes skin irritation.		
	H319: Causes serious eye irritation.		
	H335: May cause respiratory irritation.		
	R36/37/38: Irritating to eyes, respiratory system and skin.		
Legal disclaimer:	The material is intended for research purposes only and should be handled exclusively		
	by those who have been fully trained in safety, laboratory and chemical handling		
	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.

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