

4-{[5-(TRIFLUOROMETHYL)PYRIDIN-2-YL]OXY}BENZONITRILE

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

1.1. Product identifier

Product name: 4-{[5-(TRIFLUOROMETHYL)PYRIDIN-2-YL]OXY}BENZONITRILE

CAS number: 175277-01-7

Product code: PC2103D

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: R20/21/22

Classification under CLP: Acute Tox. 4: H302; Acute Tox. 4: H312; Acute Tox. 4: H332

Most important adverse effects: Harmful by inhalation, in contact with skin and if swallowed.

2.2. Label elements

Label elements under CLP:

Hazard statements: H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



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Precautionary statements:	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:	Harmful.
	×
Risk phrases:	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
Safety phrases:	S1/2: Keep locked up and out of the reach of children.
	S26: In case of contact with eyes, rinse immediately with plenty of water and seek
	medical advice.
	S45: In case of accident or if you feel unwell, seek medical advice immediately (show
	the label where possible).
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: 4-{[5-(TRIFLUOROMETHYL)PYRIDIN-2-YL]OXY}BENZONITRILE

Section 4: 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. Consult a doctor.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water
	to drink immediately. 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. Nausea and stomach
	pain may occur. There may be vomiting.

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

4.3. Indication of any immediate medical attention and special treatment needed

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ection 5: Fire-fighting measur	'es	
5.1. Extinguishing media		
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the	
	surrounding fire should be used.	
5.2. Special hazards arising fro	m the substance or mixture	
Exposure hazards:	In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx). Hydrogen	
	fluoride (HF). Hydrogen cyanide (HCN).	
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 n	neasures	
6.1. Personal precautions, prot	ective equipment and emergency procedures	
	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.	
6.2. Environmental precautions		
	Do not discharge into drains or rivers.	
6.3. Methods and material for c		
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate	
	method.	
6.4. Reference to other sections	S	
ection 7: Handling and storag	le	
7.1. Precautions for safe handli	ng	
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 dust in the air. Only	
	use in fume hood.	
7.2. Conditions for safe storage	e, including any incompatibilities	
	Store in cool, well ventilated area. Keep container tightly closed. Store under Argon.	
	Must only be kept in original packaging.	
7.3. Specific end use(s)		
Specific end use(s):		
ection 8: Exposure controls/p	personal protection	

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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. Respiratory
protective device with particle filter.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: Solid

Melting point/range ℃: 83-85

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.

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 cyanide

(HCN). Hydrogen fluoride (HF).

Section 11: Toxicological information

11.1. Information on toxicological effects

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Relevant hazards for substant	nce:		
Hazard		Route	Basis
Acute toxicity (ac. tox. 4)		INH DRM ING	Based on test data
Symptoms / routes of exposure	٩		
	-	be irritation and redness at	
Eye contact:	There may	be irritation and redness. T	The eyes may water profusely.
Ingestion:	There may	be soreness and redness of	of the mouth and throat. Nausea and stomach
	pain may c	occur. There may be vomitir	ng.
Inhalation:	There may	be irritation of the throat wi	ith a feeling of tightness in the chest.
Section 12: Ecological information	ation		
12.1. Toxicity			
Ecotoxicity values:	Not applica	able.	
12.2. Persistence and degrada	bility		
Persistence and degradability:	No data av	vailable.	
12.3. Bioaccumulative potentia	ıl		
Bioaccumulative potential:	No data av	vailable.	
12.4. Mobility in soil			
Mobility:	No data av	ailable.	
12.5. Results of PBT and vPvB	assessme	nt	
DPT identification.	This subst	ance is not identified as a P	
		ance is not identified as a P	bi substance.
12.6. Other adverse effects			
Other adverse effects:	No data av	ailable.	
Section 13: Disposal consideration	ations		
13.1. Waste treatment methods	6		

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

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14.2. UN proper shipping name		
Shipping name:	NITRILES, TOXIC, LIQUID, N.O.S.	
14.3. Transport hazard class(es	3)	
Transport class:	6.1	
14.4. Packing group		
Packing group:	III	
14.5. Environmental hazards		
Environmentally hazardous:	No Marine pollutant: No	
14.6. Special precautions for us	ser	
Tunnel code:	F	
Transport category:		
Section 15: Regulatory information		
15.1. Safety, nearth and environ	nmental regulations/legislation specific for the substance or mixture	
15.2. Chemical Safety Assessm	ient	
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. Toxtree - Toxic Hazard Estimation by	
	decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?	
	c=TOXTREE	
Phrases used in s.2 and 3:		
	H312: Harmful in contact with skin.	
	H332: Harmful if inhaled.	
	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.	
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	
	exist for this product. This is not a warranty and Apollo Scientific Ltd shall not be held	
	exist for this product. This is not a warranty and Apolio Scientific Ltd shall not be held	

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liable for any damage resulting from handling or from contact with the above product.