

2-FLUORO-5-(TRIFLUOROMETHYL)PYRIDINE

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

1.1. Product identifier

Product name: 2-FLUORO-5-(TRIFLUOROMETHYL)PYRIDINE

CAS number: 69045-82-5

EINECS number: 400-290-2

Index number: 613-071-00-3

Product code: PC4374

Synonyms: ALPHA, ALPHA, ALPHA, 6-TETRAFLUORO-3-PICOLINE

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:	Aquatic Chronic 3: H412; Flam. Liq. 3: H226; Skin Sens. 1: H317
Classification under CHIP:	-: R10; Sens.: R43; -: R52/53
ost important adverse effects:	Flammable liquid and vapour. May cause an allergic skin reaction. Harmful to aquatic life
	with long lasting effects.

2.2. Label elements

Mo

Label elements:

Hazard statements: H226: Flammable liquid and vapour.

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

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Signal words:	Warning		
Hazard pictograms:	GHS02: Flame		
	GHS07: Exclamation mark		
Precautionary statements:	P271: Use only outdoors or in a well-ventilated area.		
	P260: Do not breathe vapours.		
	P280: Wear protective gloves/protective clothing/eye protection/face protection.		
2.3. Other hazards			
Other hazards:	In use, may form flammable / explosive vapour-air mixture.		
	This product is not identified as a PBT/vPvB substance.		
Section 3: Composition/information			
-			_
3.1. Substances			
Chemical identity:	2-FLUORO-5-(TRIFLUOROMETHYL)PYRIDINE		
CAS number:	69045-82-5		
EINECS number:	400-290-2		
Section 4: First aid measures			
4.1. Description of first aid mea	sures		
Skiir contact.	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash		
Eve contectu	immediately with plenty of soap and water.		
	Bathe the eye with running water for 15 minutes.		
0	Wash out mouth with water.		
	Consult a doctor.		
4.2. Most important symptoms a	and effects, both acute and delayed		
Skin contact:	There may be mild irritation at the site of contact.		
Eye contact:	There may be irritation and redness.		
Ingestion:	There may be irritation of the throat.		
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.		
4.3. Indication of any immediate	e medical attention and special treatment needed		
Section 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.

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5.2. Special hazards arising from	m the substance or mixture	
Exposure hazards:	Flammable. Forms explosive air-vapour mixture. In combustion emits toxic fumes.	
	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.	
Section 6: Accidental release m		
6.1. Personal precautions, prote	ective equipment and emergency procedures	
	Refer to section 8 of SDS for personal protection details. Notify the police and fire	
reisonai piecautions.	brigade immediately. Eliminate all sources of ignition. Turn leaking containers leak-side	
	up to prevent the escape of liquid.	
6.2. Environmental precautions		
0.2. 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. Do not use equipment in clean-up procedure which	
	may produce sparks.	
6.4. Reference to other sections	3	
Section 7: Handling and storag	e	
7.1. Precautions for safe handli	ng	
Handling requirements:	Smoking is forbidden. Use non-sparking tools. Keep container tightly closed. Close	
5 1	container after use or when empty. Ensure there is sufficient ventilation of the area. Avoid	
	the formation or spread of mists in the air. Only use in fume hood.	
7.2. Conditions for safe storage	, including any incompatibilities	
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Keep away from	
-	sources of ignition. Prevent the build up of electrostatic charge in the immediate area.	
	Ensure lighting and electrical equipment are not a source of ignition. 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		
8 1 Control parameters		

8.1. Control parameters

Workplace exposure limits: No data available.

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DNEL/PNEC Values	
DNEL / PNEC	No data available.
8.2. Exposure controls	
Engineering measures:	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical
	equipment are not a source of ignition.
Respiratory protection:	Respiratory protection not required.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.
Section 9: Physical and chemic	al properties
9.1. Information on basic physic	al and chemical properties
State:	Liquid
Solubility in water:	Not miscible
Boiling point/range ℃:	118-122 Flash point ℃: 35
Relative density:	1.37g/cm3
9.2. Other information	
Other information:	Vapour density: 5.7
Section 10: Stability and reactiv	ity
10.1. Reactivity	
Reactivity:	Stable under recommended transport or storage conditions.
10.2. Chemical stability	
Chemical stability:	Stable under normal conditions. Stable at room temperature.
Chemical stability: 10.3. Possibility of hazardous re	
10.3. Possibility of hazardous re	
10.3. Possibility of hazardous re	eactions
10.3. Possibility of hazardous re Hazardous reactions: 10.4. Conditions to avoid	eactions
10.3. Possibility of hazardous re Hazardous reactions: 10.4. Conditions to avoid	Hazardous reactions will not occur under normal transport or storage conditions.
10.3. Possibility of hazardous reactions: Hazardous reactions: 10.4. Conditions to avoid Conditions to avoid: 10.5. Incompatible materials	Hazardous reactions will not occur under normal transport or storage conditions.

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx). Hydrogen cyanide (HCN). Hydrogen fluoride (HF).

Section 11: Toxicological information

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11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Respiratory/skin sensitisation	DRM	Based on test data

Symptoms / routes of exposure

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

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

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

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.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB 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:	UN1993	
14.2. UN proper shipping name		
Shipping name:	FLAMMABLE LIQUID, N.O.S.	
14.3. Transport hazard class(es))	
Transport class:	3	
14.4. Packing group		
Packing group:		
14.5. Environmental hazards		
Environmentally hazardous:	No Marine pollutant: No	
14.6. Special precautions for us		
Tunnel code:		
Transport category:	3	
Section 15: Regulatory information	tion	
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture	
-		
15.2. Chemical Safety Assessme	ent	
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	
	~ Data predicted using computational software ACD/ToxSuite v 2.95.1 Copyright 1994-	
	2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry	
Deresses used in s 2 and s 2.	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/ H226: Flammable liquid and vapour.	
Phrases used in S.2 and S.3:		
	H317: May cause an allergic skin reaction.	
	H412: Harmful to aquatic life with long lasting effects. R10: Flammable.	
	R43: May cause sensitisation by skin contact. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the	
	aquatic environment.	
	aquato ormonitoriti	[cont]

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Legend to abbreviations: PNEC = predicted no effect level DNEL = derived no effect level LD50 = median lethal dose LC50 = median lethal concentration EC50 = median effective concentration IC50 = median inhibitory concentration dw = dry weight bw = body weight cc = closed cupoc = open cup MUS = mouse GPG = guinea pig RBT = rabbit HAM = hamster HMN = human MAM = mammal PGN = pigeon IVN = intravenous SCU = subcutaneous SKN = skin DRM = dermal OCC = ocular/corneal PCP = phycico-chemical properties 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 liable for any damage resulting from handling or from contact with the above product.