

5-(HYDROXYMETHYL)-2-(TRIFLUOROMETHYL)PYRIDINE

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Compilation date: 24/10/2002

Revision date: SAP 21/08/15

Revision No: 2

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

## 1.1. Product identifier

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

**CAS number:** 386704-04-7

Product code: PC6985

Synonyms: 6-(TRIFLUOROMETHYL)PYRIDINE-3-METHANOL

2-(TRIFLUOROMETHYL)PYRIDINE-5-METHANOL

[6-(TRIFLUOROMETHYL)PYRIDIN-3-YL]METHANOL

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 subst	ance or mixture
Classification under CLP:	Acute Tox. 3: H301; STOT SE 3: H335; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens.
	1: H317
Classification under CHIP:	T: R25; Xi: R37/38; Xi: R41; Sens.: R43
Most important adverse effects:	Toxic if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes
	serious eye damage. May cause respiratory irritation.

2.2. Label elements

### Label elements:

Hazard statements: H301: Toxic if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

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H318: Causes serious eye damage.H335: May cause respiratory irritation.Signal words:DangerHazard pictograms:GHS05: CorrosionGHS06: Skull and crossbonesView View View View View View View View
Signal words: Danger   Hazard pictograms: GHS05: Corrosion   GHS06: Skull and crossbones GHS06: Skull and crossbones   Precautionary statements: P312: Call a POISON CENTER/doctor//if you feel unwell.
Hazard pictograms: GHS05: Corrosion   GHS06: Skull and crossbones   Image: Construct of the state of th
GHS06: Skull and crossbones Precautionary statements: P312: Call a POISON CENTER/doctor//if you feel unwell.
Precautionary statements: P312: Call a POISON CENTER/doctor//if you feel unwell.
P260: Do not breathe vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
2.3. Other hazards
<b>PBT:</b> This product is not identified as a PBT/vPvB substance.
Section 3: Composition/information on ingredients
3.1. Substances
Chemical identity: 5-(HYDROXYMETHYL)-2-(TRIFLUOROMETHYL)PYRIDINE
CAS number: 386704-04-7
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.
<b>Eye contact:</b> Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist
examination.
<b>Ingestion:</b> Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water
to drink immediately. 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 conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. 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:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

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Ingestion:	There may be soreness and redness of the mouth and throat. There may be vomiting.	. 3	-
	Convulsions may occur. There may be loss of consciousness.		
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Absorption		
	through the lungs can occur causing symptoms similar to those of ingestion.		
	Convulsions may occur. There may be loss of consciousness.		
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.		
4.3. Indication of any immediat	e medical attention and special treatment needed		
Immediate / special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in		
	attendance.		
Section 5: Fire-fighting measu			
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5.1. Extinguishing media			
Extinguishing media:	Suitable extinguishing media for the surrounding fire should be used. Use water spray		
	to cool containers.		
5.2. Special hazards arising fro	m the substance or mixture		
Exposure hazards:	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen		
	oxides (NOx). 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 r	neasures		
6.1. Personal precautions, prot	ective equipment and emergency procedures		
Personal precautions:	Notify the police and fire brigade immediately. 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. 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	S		

Reference to other sections: Refer to section 8 of SDS.

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## Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is exhaust 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. 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/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

## **DNEL/PNEC** Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures:Ensure there is exhaust ventilation of the area.Respiratory protection:Self-contained breathing apparatus must be available in case of emergency.Hand protection:Impermeable gloves.Eye protection:Safety glasses with side-shields. 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		
Oxidising:	Non-oxidising (by EC criteria)		
Boiling point/range ℃:	100-102/0.75mmHg	Flash point °C: >110	
Part.coeff. n-octanol/water:	log Pow: 1.55	Relative density: 1.494g/cm	13

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.

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### 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.

Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames.

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. Nitrogen oxides

(NOx). Hydrogen fluoride (HF).

## Section 11: Toxicological information

## 11.1. Information on toxicological effects

## Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
Respiratory/skin sensitisation	DRM	Based on test data
STOT-single exposure	INH	Based on test data

#### Symptoms / routes of exposure

**Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Convulsions may occur. There may be loss of consciousness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

### Section 12: Ecological information

#### 12.1. Toxicity

Ecotoxicity values: No data available.

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### 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:	Transfer to a suitable container and arrange for collection by specialised disposal
	company.
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.
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: UN2810

### 14.2. UN proper shipping name

Shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

(5-(Hydroxymethyl)-2-(trifluoromethyl)pyridine)

## 14.3. Transport hazard class(es)

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 user

Special precautions: No special precautions.

Tunnel code: E

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Transport category:	2	
Section 15: Regulatory information	ation	
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture	
15.2. Chemical Safety Assessm	nent	
	A chemical safety assessment has not been carried out for the substance or the mixture	
onomoul outry received.	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	
	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/	
Phrases used in s.2 and s.3:	H301: Toxic if swallowed.	
	H315: Causes skin irritation.	
	H317: May cause an allergic skin reaction.	
	H318: Causes serious eye damage.	
	H335: May cause respiratory irritation.	
	R25: Toxic if swallowed.	
	R37/38: Irritating to respiratory system and skin.	
	R41: Risk of serious damage to eyes.	
	R43: May cause sensitisation by skin contact.	
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 cup	
	oc = open cup	
	MUS = mouse	
	GPG = guinea pig	

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RBT = rabbit HAM = hamster HMN = humanMAM = mammal PGN = pigeon IVN = intravenous SCU = subcutaneous SKN = skin DRM = dermal OCC = ocular/corneal PCP = phycico-chemical properties

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