

2-CHLORO-5-(TRIFLUOROMETHYL)NICOTINIC ACID

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Revision No: 2

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

1.1. Product identifier

Product name: 2-CHLORO-5-(TRIFLUOROMETHYL)NICOTINIC ACID

CAS number: 505084-59-3

Product code: PC9219

Synonyms: 2-CHLORO-5-(TRIFLUOROMETHYL)PYRIDINE-3-CARBOXYLIC ACID

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: R22; Xi: R36/37/38
 Classification under CLP: Acute Tox. 4: H302; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315
 Most important adverse effects: Harmful if swallowed. Irritating to eyes, respiratory system and skin.

2.2. Label elements

Label elements under CLP:

Hazard statements: H302: Harmful if swallowed.

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:
 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:

 Hazard symbols:

 Risk phrases:

 R22: Harmful if swallowed.

 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.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2-CHLORO-5-(TRIFLUOROMETHYL)NICOTINIC ACID

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. 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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Section 5: Fire-fighting measu	res		
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		
	chloride (HCl). 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:	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 section	S		
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.		
5 .	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		
Storage conditions:	Store in 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/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: Powder

Melting point/range ℃: 173-178

Part.coeff. n-octanol/water: log Pow: 2.472

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. Nitrogen oxides

(NOx). Hydrogen chloride (HCl). Hydrogen fluoride (HF).

Section 11: Toxicological information

11.1. Information on toxicological effects

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Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data
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. 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.

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.

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Section 14: Transport informat	lion					
14.1. UN number						
UN number:	UN2811					
14.2. UN proper shipping name						
Shipping name:	TOXIC SOLID, ORGANIC, N.O.S.					
14.3. Transport hazard class(es						
Transport class:						
14.4. Packing group						
Packing group:						
14.5. Environmental hazards						
Environmentally hazardous: 14.6. Special precautions for us						
- · ·						
Tunnel code: Transport category:						
Section 15: Regulatory informa						
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture					
15.2. Chemical Safety Assessm	nent					
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 computatioanl software ACD/ToxSuite v 2.95.1 Copyright 1994-					
	2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry					
Phrases used in s.2 and 3:	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/					
	H315: Causes skin irritation.					

- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
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