

2-CHLORO-5-FLUOROPHENYLACETONITRILE

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

# 1.1. Product identifier

Product name: 2-CHLORO-5-FLUOROPHENYLACETONITRILE

CAS number: 395675-23-7

Product code: PC302443

# 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; T: R24/25; Xi: R36/37/38
Classification under CLP:	Acute Tox. 3: H301+311; Eye Irrit. 2: H319; STOT SE 3: H335; Acute Tox. 4: H332; Skin
	Irrit. 2: H315
Most important adverse effects:	Harmful by inhalation. Toxic in contact with skin and if swallowed. Irritating to eyes,
	respiratory system and skin.
2.2. Label elements	
Label elements under CLP:	
Hazard statements:	H301+311: Toxic if swallowed or in contact with skin.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H332: Harmful if inhaled.
	H335: May cause respiratory irritation.
Signal words:	Danger
Hazard pictograms:	GHS06: Skull and crossbones

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 Precautionary statements:
 P260: Do not breathe dust.

 P280: Wear protective gloves/protective clothing/eye protection.

 P312: Call a POISON CENTER or doctor if you feel unwell.

Label elements under CHIP:

Hazard symbols: Toxic.



**Risk phrases:** R20: Harmful by inhalation.

R24/25: Toxic in contact with skin and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

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-CHLORO-5-FLUOROPHENYLACETONITRILE

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# 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.	
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist	
	examination.	
Ingestion:	Wash out mouth with water. Do not induce vomiting. 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.

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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.		
4.3. Indication of any immediat	e medical attention and special treatment needed		
Section 5: Fire-fighting measu	res		
5.1. Extinguishing media			
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the		
0 0	surrounding fire should be used. Use water spray to cool containers.		
5.2. Special hazards arising fro			
Exposure hazards:	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen		
	oxides (NOx). Hydrogen cyanide (HCN). Hydrogen chloride (HCI). 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. Do not		
	create dust.		
6.2. Environmental precautions	3		
Environmental procautions:	Do not discharge into drains or rivers.		
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6.3. Methods and material for c	containment and cleaning up		
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific		
	substance. Transfer to a closable, labelled salvage container for disposal by an		
	appropriate method.		
6.4. Reference to other section	S		
<b>0 7</b>			

# Section 7: Handling and storage

#### 2-CHLORO-5-FLUOROPHENYLACETONITRILE

#### 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 dust in the air. Only use in fume hood.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

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 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. Particle
	filter class P1 (EN143).
Hand protection:	Protective gloves.
Eye protection:	Safety glasses with side-shields. 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: Crystals

Colour: White

#### 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.

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.

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#### 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 cyanide (HCN). Hydrogen chloride (HCI). Hydrogen fluoride (HF).

#### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

#### Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH	Based on test data
Acute toxicity (ac. tox. 3)	DRM 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 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.

#### 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.

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#### 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

14.1. UN number

UN number: UN3439

14.2. UN proper shipping name

Shipping name: NITRILES, SOLID, TOXIC, N.O.S.

#### 14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No 14.6. Special precautions for user Marine pollutant: No

Tunnel code: E

Transport category: 2

#### Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2. Chemical Safety Assessment

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

# 2-CHLORO-5-FLUOROPHENYLACETONITRILE

Other information	
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
	<ul> <li>* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?</li> <li>c=TOXTREE</li> <li>~ Data predicted using computatioanl software ACD/ToxSuite v 2.95.1 Copyright 1994- 2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry</li> </ul>
Phrases used in s.2 and 3:	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/ H301+311: Toxic if swallowed or in contact with skin. H315: Causes skin irritation. H319: Causes serious eye irritation. H332: Harmful if inhaled. H335: May cause respiratory irritation. R20: Harmful by inhalation.
Legal disclaimer:	R24/25: Toxic in contact with skin and if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin. 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
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