

4-CHLORO-3-FLUORO-5-(TRIFLUOROMETHYL)PHENYLACETONITRILE

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

1.1. Product identifier

Product name: 4-CHLORO-3-FLUORO-5-(TRIFLUOROMETHYL)PHENYLACETONITRILE

CAS number: 1431329-62-2

Product code: PC302743

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 Itd

Units 3 & 4 Parkway Denton Manchester M34 3SG UK

Tel: 01616411420

Email: alan.myers@apolloscientific.co.uk

1.4. Emergency telephone number

Emergency tel: -

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 3: H301+H311; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315

Most important adverse effects: Toxic if swallowed or in contact with skin Causes skin irritation. Causes serious eye

irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:	
Hazard statements:	H301+H311: Toxic if swallowed or in contact with skin
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Hazard pictograms:	GHS06: Skull and crossbones



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Signal words:	Danger
Precautionary statements:	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P361+P364: Take off immediately all contaminated clothing and wash it before reuse.
	P362+P364: Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 4-CHLORO-3-FLUORO-5-(TRIFLUOROMETHYL)PHENYLACETONITRILE

CAS number: 1431329-62-2

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 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.	
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.	

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Toxic. In combustion emits toxic fumes.

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 measures

6.1. Personal precautions, protective 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

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for 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 sections

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 dust 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.

Suitable packaging: Must only be kept in original packaging.

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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:	gineering measures: Ensure there is exhaust ventilation of the area.	
Respiratory protection:	iratory 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:	Solid		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Melting point/range°C:	No data available.	Flammability limits %: lower:	No data available.
upper:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	No data available.
Relative density:	No data available.	pH:	No data available.
VOC g/l:	No data available.		

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.

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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.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	DRM ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

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.

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12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Mobility: No data available.

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12.5. Results of PDT and VPVD 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 considera	tions	
13.1. Waste treatment methods		
Diseasel sussetions		
Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal	
	company. 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 informati	on	
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 Marine pollutant: No	
14.6. Special precautions for us	er	
Tunnel code:	F	
Transport category:		
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Section 15: Regulatory informa		
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture	
Specific regulations:	Not applicable.	

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15.2. Chemical Safety Assessm	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.	
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Section 16: Other information		
Other information		
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.	
	* Data predicted using computational software. The OECD QSAR-Toolbox for grouping	
	chemicals into categories. Developed by LMC bulgaria.	
	http://echa.europa.eu/support/oecd-qsar-toolbox	
	~ 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+H311: Toxic if swallowed or in contact with skin	
	H315: Causes skin irritation.	
	H319: Causes serious eye irritation.	
	H335: May cause respiratory irritation.	
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	by those who have been fully trained in safety, laboratory and chemical handling	
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