

4-CHLORO-2-FLUOROPHENYLACETONITRILE

Page: 1 Compilation date: 13/02/2008

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Revision No: 3

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

1.1. Product identifier

Product name: 4-CHLORO-2-FLUOROPHENYLACETONITRILE

CAS number: 75279-53-7

Product code: PC9472

Synonyms: 4-CHLORO-2-FLUOROBENZYL CYANIDE

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. 4: H302; Eye Irrit. 2: H319; Aquatic Chronic 3: H412; Skin Irrit. 2: H315; STOT
	SE 3: H335
Most important adverse effects:	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause
	respiratory irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H302: Harmful if swallowed.

H315: Causes skin irritation.

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	H319: Causes serious eye irritation.		
	H335: May cause respiratory irritation.		
	H412: Harmful to aquatic life with long lasting effects.		
Hazard pictograms:	GHS07: Exclamation mark		
Signal words:	Warning		
Precautionary statements:	P280: Wear protective gloves/protective clothing/eye protection/face protection.		
	P301+P312: IF SWALLOWED: Call a POISON CENTER if you feel unwell.		
	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	ation on ingredients		
			_ /
3.1. Substances			
L	4-CHLORO-2-FLUOROPHENYLACETONITRILE		
L			
Chemical identity:			
Chemical identity: CAS number:	75279-53-7		
Chemical identity: CAS number: Section 4: First aid measures 4.1. Description of first aid mea	75279-53-7 sures		
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Chemical identity: CAS number: Section 4: First aid measures 4.1. Description of first aid mea Skin contact: Eye contact: Ingestion:	75279-53-7 sures Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Bathe the eye with running water for 15 minutes. Consult a doctor.		
Chemical identity: CAS number: Section 4: First aid measures 4.1. Description of first aid mea Skin contact: Eye contact: Ingestion:	75279-53-7 sures Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Bathe the eye with running water for 15 minutes. Consult a doctor. Wash out mouth with water. Consult a doctor.		
Chemical identity: CAS number: Section 4: First aid measures 4.1. Description of first aid mea Skin contact: Eye contact: Ingestion: Inhalation:	75279-53-7 sures Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Bathe the eye with running water for 15 minutes. Consult a doctor. Wash out mouth with water. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a		
Chemical identity: CAS number: Section 4: First aid measures 4.1. Description of first aid mea Skin contact: Eye contact: Ingestion: Inhalation: 4.2. Most important symptoms a	75279-53-7 sures Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Bathe the eye with running water for 15 minutes. Consult a doctor. Wash out mouth with water. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.		

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

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ection 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.	
5.2. Special hazards arising from	n the substance or mixture	
Exposure hazards:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides	
	(NOx). Hydrogen fluoride (HF). Hydrogen chloride (HCI).	
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.	
ection 6: Accidental release m	easures	
6.1 Personal precautions prote	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. Do not create dust.	
6.2. Environmental precautions		
	Do not discharge into drains or rivers.	
6.3. Methods and material for co	ontainment and cleaning up	
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate	
	method.	
6.4. Reference to other sections		
Reference to other sections:	Refer to section 8 of SDS.	
ection 7: Handling and storage	9	
7.1. Precautions for safe handling	ng	
Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.	
inananing roquironionion	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		
	Store in a cool, well ventilated area. Keep container tightly closed. The floor of the	
Storage conditions.	storage room must be impermeable to prevent the escape of liquids.	
	storage room must be impermeable to prevent the escape of inquids.	
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:	Ensure there is sufficient ventilation of the area. The floor of the storage room must be
	impermeable to prevent the escape of liquids.
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:	Solid		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Viscosity:	No data available.		
Boiling point/range°C:	No data available.	Melting point/range°C:	No data available.
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	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.

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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.

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). Hydrogen chloride (HCI).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

Excluded hazards for substance:

Hazard	Route	Basis	
Acute toxicity (ac. tox. 3)	-	No hazard: calculated	
Acute toxicity (ac. tox. 2)	-	No hazard: calculated	
Acute toxicity (ac. tox. 1)	-	No hazard: calculated	
Respiratory/skin sensitisation	-	No hazard: calculated	
Germ cell mutagenicity	-	No hazard: calculated	
Carcinogenicity	-	No hazard: calculated	
Reproductive toxicity	-	No hazard: calculated	
STOT-repeated exposure	-	No hazard: calculated	
Aspiration hazard	-	No hazard: calculated	

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.

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 Ingestion: There may be soreness and redness of the mouth and throat.

 Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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

 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: Toxic to aquatic organisms. Toxic to soil organisms.

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: UN3077

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(4-Chloro-2-fluorophenylacetonitrile)

14.3. Transport hazard class(es)

Transport class: 9

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Marine pollutant: No

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: -

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: Not applicable.

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

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
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Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/
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.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

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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.