

4-FLUORO-3-METHYLBENZONITRILE

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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: 4-FLUORO-3-METHYLBENZONITRILE

CAS number: 185147-08-4

Product code: PC0774

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	
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Classification under CLP:	Acute Tox. 4: H302+312+332; Eye Irrit. 2: H319; Skin Irrit. 2: H315
Most important adverse effects:	Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes
	serious eye irritation.

2.2. Label elements

Label elements:	
Hazard statements:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark



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Precautionary statements: P260: Do not breathe dust.

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

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

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-FLUORO-3-METHYLBENZONITRILE

CAS number: 185147-08-4

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

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.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx). Hydrogen cyanide (HCN). Hydrogen fluoride (HF).

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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: 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

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment 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

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

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, 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.

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.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection: Protective gloves.

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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

Colour: Cream

Solubility in water: Insoluble

Also soluble in: Methanol.

Melting point/range ℃: 53-56

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.

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 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 DRM ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated

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Serious eye damage/irritation		OPT	Hazardous: calculated		
Symptoms / routes of exposur	е				
Skin contact:	There may	be irritation and redness at	the site of contact.		
Eye contact:	There may	be irritation and redness. T	he eyes may water profusely.		
Ingestion:	There may	be soreness and redness o	f the mouth and throat. Nausea and stomach		
	pain may o	occur. There may be vomiting	g.		
Inhalation:	There may	be irritation of the throat wit	th a feeling of tightness in the chest.		
Section 12: Ecological information	ation				
12.1. Toxicity					
Ecotoxicity values:	No data av	vailable.			
12.2. Persistence and degrada	bility				
Persistence and degradability:	No data av	vailable.			
12.3. Bioaccumulative potentia	al				
Bioaccumulative potential:	No data av	/ailable.			
12.4. Mobility in soil					
Mobility:	Insoluble i	n water.			
12.5. Results of PBT and vPvB	assessme	nt			
PBT identification:	This produ	ict is not identified as a PBT/	vPvB substance.		
12.6. Other adverse effects					
Other adverse effects:	No data av	vailable.			
Section 13: Disposal consider	ations				
13.1. Waste treatment methods	S				
Disposal operations:	Transfer to	a suitable container and an	range for collection by specialised disposal		
			SPOSED OF IN ACCORDANCE WITH LOCAL,		
		ID FEDERAL REGULATION			
Disposal of packaging:			unce with local and national regulations Observe		
	•	state and local environment	-		
NB:			ssible existence of regional or national		
		s regarding disposal.	-		
Section 14: Transport informa	tion				

Section 14: Transport informatio

14.1. UN number

UN number: UN3439

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14.2. UN proper shipping name			
Shipping name:	NITRILES, SOLID, TOXIC, N.O.S.		
	(4-Fluoro-3-methylbenzonitrile)		
14.3. Transport hazard class(es	s)		
Transport class:	61		
14.4. Packing group			
Packing group:	11		
14.5. Environmental hazards			
Environmentally hazardous:	No Marine pollutant: No		
14.6. Special precautions for us	ser		
Tunnel code:	E		
Transport category:	2		
Section 15: Regulatory information	ition		
15.1. Safety, health and enviror	mental regulations/legislation specific for the substance or mixture		
15.2. Chemical Safety Assessm	ent		
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 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:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.		
	H315: Causes skin irritation.		
	H319: Causes serious eye irritation.		
Legal disclaimer:	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		

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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 liable for any damage resulting from handling or from contact with the above product.