

3,4-DIFLUOROPHENYLACETONITRILE

Page: 1 Compilation date: 27/01/2007 Revision date: 22/11/2013 Revision No: 2

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

1.1. Product identifier

Product name: 3,4-DIFLUOROPHENYLACETONITRILE

CAS number: 658-99-1

EINECS number: 211-528-8

Product code: PC2874EK

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: R20/21/22; Xi: R36/37/38	
Classification under CLP:	Acute Tox. 4: H302+312+332; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315	
Most important adverse effects:	Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory	
	system and skin.	
2.2. Label elements		
Label elements under CLP:		
Hazard statements:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.	

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Signal words: Warning

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Hazard pictograms: GHS07: Exclamation mark



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

 Label elements under CHIP:
 Hazard symbols:

 Hazard symbols:
 Harmful.



Risk phrases:	R20/21/22: Harmful by inhalation, in contact with skin and 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.

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: 3,4-DIFLUOROPHENYLACETONITRILE

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 a	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.	
lu ha latian .	There may be irritation of the threat with a faciling of tightness in the cheat	
Innalation:	There may be irritation of the throat with a feeling of tightness in the chest.	

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4.3. Indication of any immediate	medical attention and special treatment needed	
Section 5: Fire-fighting measure	es	
5.1. Extinguishing media		
	O i i i i i i i i i i i i i i i i i i i	
Extinguisting metha.	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.	
5.0. Or said herewise evision from		
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).	
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 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. Turn	
	leaking containers leak-side up to prevent the escape of liquid.	
6.2. Environmental precautions		
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.	
6.3. Methods and material for co	ontainment and cleaning up	
Clean-up procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for	
	disposal by an appropriate method.	
6.4. Reference to other sections		
Outling 7: Handling and starse		
Section 7: Handling and storage	3	
7.1. Precautions for safe handlin	ng	
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 mists 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.	
	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/p		
Section 6. Exposure controls/p		
8.1. Control parameters		
Workplace exposure limits:	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.	
Hand protection:	Impermeable gloves.	
Eye protection:	Safety glasses. Ensure eye bath is to hand.	
Skin protection:	Impermeable protective clothing.	
Section 9: Physical and chemic	al properties	
9.1. Information on basic physic	al and chemical properties	
State:	Liquid	
	Colourless	
Oxidising:	Non-oxidising (by EC criteria)	
Solubility in water:		
Boiling point/range℃:	110@13mmHg Flash point ℃: 113	
Relative density:	1.244	
9.2. Other information		
Other information:	No data available.	
Section 10: Stability and reactiv	ity	
10.1. Reactivity		
	Stable under recommended transport or storage conditions.	
10.2. Chemical stability		
Chemical stability:	Stable under normal conditions.	
10.3. Possibility of hazardous re	eactions	
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		
	Strong oxidising agents. Strong acids.	

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10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx). 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	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: 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 substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

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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		
Disposal of packaging.	all federal, state and local environmental regulations.		
NB	The user's attention is drawn to the possible existence of regional or national		
ND.	regulations regarding disposal.		
Section 14: Transport informat	on		
14.1. UN number			
UN number:	LIN3276		
14.2. UN proper shipping name			
Shipping name:	NITRILES, LIQUID, TOXIC, N.O.S.		
14.3. Transport hazard class(es)		
Transport class:	6.1		
14.4. Packing group			
Packing group:			
14.5. Environmental hazards			
Environmentally hazardous:	No Marine pollutant: No		
14.6. Special precautions for us	er		
Tunnel code:	F		_
Transport category:			
Section 15: Regulatory informa	tion		
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture		
15.2. Chemical Safety Assessm	ont		
15.2. Chemical Salety Assessing			
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			7
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		

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	~ Data predicted using computatioanl 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 3:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
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	R36/37/38: Irritating to eyes, respiratory system and skin.
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