

## 2,4-DIFLUOROPHENYLHYDRAZINE

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

## 1.1. Product identifier

Product name: 2,4-DIFLUOROPHENYLHYDRAZINE

**CAS number:** 40594-30-7

Product code: PC2874T

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	

Hazard pictograms: GHS07: Exclamation mark



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

 P271: Use only outdoors or in a well-ventilated area.

 Label elements under CHIP:

 Hazard symbols:

 Hazard symbols:

 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:
 S22: Do not breathe dust.

 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: 2,4-DIFLUOROPHENYLHYDRAZINE

## Section 4: First aid measures

4.1. Description of first aid measures	
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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.

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

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

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

### 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. Carbon oxides. 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 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

Reference to other sections: Refer to section 8 of SDS.

#### 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 cool, well ventilated area. Keep container tightly closed. Store under Argon.

 Recommended storage temp 2-8 °C.

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: Not applicable.

## 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.	
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

Colour: Off-white

Oxidising: Non-oxidising (by EC criteria)

Melting point/range °C: 65-67

# 9.2. Other information

Other information: Not applicable.

## 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 fluoride (HF).

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#### 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.

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

#### Section 12: Ecological information

#### 12.1. Toxicity

Ecotoxicity values: Not applicable.

#### 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

#### 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.

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# **NB:** The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

### Section 14: Transport information

Transport class: This product does not require a classification for transport.

## 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

## Other information

<b>Other information:</b> This safety data sheet is prepared in accordance with 453/2010.	Commission Regulation (EU) No
* Data predicted using computational software. Toxtre	ee - Toxic Hazard Estimation by
decision tree approach. http://ecb.jrc.ec.europa.eu/qs	ar/qsar-tools/index.php?
c=TOXTREE	
~ Data predicted using computatioanl software ACD/1	FoxSuite v 2.95.1 Copyright 1994-
2009 ACD/labs, Copyright 2001-2009 Pharma Algorit	hms, Inc, Advanced Chemistry
Development, Inc (ACD/Labs). http://www.acdlabs.co	m/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.
H315: Causes skin irritation.	
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H335: May cause respiratory irritation.	
R20/21/22: Harmful by inhalation, in contact with skin	and if swallowed.
R36/37/38: Irritating to eyes, respiratory system and s	skin.
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by those who have been fully trained in safety, labora	tory and chemical handling
procedures. The above information is believed to be o	correct to the best of our
knowledge. The above information is believed to be c	orrect to the best of our knowledge
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