

2,4-DIFLUOROTHIOBENZAMIDE

Page: 1 Compilation date: 25/10/2006 Revision date: SAP_06/07/15 Revision No: 2

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

1.1. Product identifier

Product name: 2,4-DIFLUOROTHIOBENZAMIDE

CAS number: 175276-92-3

Product code: PC32594

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 CLP:	Acute Tox. 4: H302+312+332; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315
Classification under CHIP:	Xn: R20/21/22; Xi: R36/37/38
Most important adverse effects:	Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes
	serious eye irritation. May cause respiratory 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.
	H335: May cause respiratory irritation.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark

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

 P260: Do not breathe dust.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

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: 2,4-DIFLUOROTHIOBENZAMIDE

CAS number: 175276-92-3

Section 4: First aid measures

4.1. Description of first aid mea	sures
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.
	There may be irritation and redness. The eyes may water profusely.
-	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 measur	es
5.1. Extinguishing media	

Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used.

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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). Sulphur oxides (SOx). Hydrogen fluoride (HF).
5.3. Advice for fire-fighters	
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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
r ersonal precautions.	downwind. If outside keep bystanders upwind and away from danger point. Mark out the
	contaminated area with signs and prevent access to unauthorised personnel.
	contaminated area with signs and prevent access to unauthonsed personnel.
6.2. Environmental precautions	
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	
Section 7: Handling and storage	e
7.1. Precautions for safe handling	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 dust in the air. Only
	use in fume hood.
7.2 Conditions for safe storage	, including any incompatibilities
-	Store in a cool, well ventilated area. Keep container tightly closed.
	Must only be kept in original packaging.
7.3. Specific end use(s)	
Specific end use(s):	No data available.
Section 8: Exposure controls/pe	ersonal protection
8.1. Control parameters	
Workplace exposure limits:	No data available.
Workplace exposure limits: DNEL/PNEC Values	No data available.

DNEL / PNEC No data available.

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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.
ection 9: Physical and chemical properties	
0.1 Information on basic physic	

9.1. Information on basic physical and chemical properties

State: Powder Colour: Yellow Solubility in water: Insoluble Melting point/range °C: 128-132

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. Sulphur oxides

(SOx) Hydrogen fluoride (HF). Nitrogen oxides (NOx).

Section 11: Toxicological information

11.1. Information on toxicological effects

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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 product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods	
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.

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Section 14: Transport informati	on		
14.1. UN number			
UN number:	* IN2811		
14.2. UN proper shipping name			
	TOXIC SOLID, ORGANIC, 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:	* E		
Transport category:	* 2		
Section 15: Regulatory information	lion		
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture		
15.2. Chemical Safety Assessme	ant		
-			
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			
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.		
	H335: May cause respiratory irritation.		

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SAFETY DATA SHEET 2,4-DIFLUOROTHIOBENZAMIDE R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin. **Legend to abbreviations:** PNEC = predicted no effect level DNEL = derived no effect level LD50 = median lethal dose LC50 = median lethal concentration EC50 = median effective concentration IC50 = median inhibitory concentration dw = dry weight bw = body weight cc = closed cupoc = open cup MUS = mouse GPG = guinea pig RBT = rabbit HAM = hamster HMN = humanMAM = mammal PGN = pigeon IVN = intravenous SCU = subcutaneous SKN = skin DRM = dermal OCC = ocular/corneal PCP = phycico-chemical properties 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 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.