

3,5-DIFLUOROBENZALDEHYDE

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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: 3,5-DIFLUOROBENZALDEHYDE

CAS number: 32085-88-4

Product code: PC2615F

Synonyms: 1,3-DIFLUORO-5-FORMYLBENZENE

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: STOT SE 3: H335; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315
 Most important adverse effects: Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:Hazard statements:H226: Flammable liquid and vapour.H315: Causes skin irritation.H319: Causes serious eye irritation.H335: May cause respiratory irritation.Signal words:WarningHazard pictograms:GHS02: Flame

GHS07: Exclamation mark

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Precautionary statements: P260: Do not breathe Dust/Vapours.

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

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

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 3,5-DIFLUOROBENZALDEHYDE

CAS number: 32085-88-4

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. Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. 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.

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

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

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

dry chemical powder, foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

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. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment 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. Do not use equipment in clean-up procedure which may produce sparks.

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 mists in the air.

Smoking is forbidden. Use non-sparking tools. 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. Keep away from
	sources of ignition. Prevent the build up of electrostatic charge in the immediate area.
	Ensure lighting and electrical equipment are not a source of ignition. Air sensitive. Store
	under Argon.
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.

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DNEL/PNEC Values	
DNEL / PNEC	No data available.
8.2. Exposure controls	
Engineering measures:	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical
	equipment are not a source of ignition.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.
Section 9: Physical and chemic	cal properties
9.1. Information on basic physi	cal and chemical properties
State:	Low-melting solid.
Odour:	Characteristic odour
Boiling point/range °C:	61-63/43mm Melting point/range °C: 17
Flash point℃:	56Relative density:1.296
9.2. Other information	
Other information:	No data available.
Section 10: Stability and reacti	vity
10.1. Reactivity	
Reactivity:	Stable under recommended transport or storage conditions.
10.2. Chemical stability	
Chemical stability:	Stable under normal conditions. Stable at room temperature.
10.3. Possibility of hazardous r	eactions
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions.
10.4. Conditions to avoid	
Conditions to avoid:	Heat. Hot surfaces. Sources of ignition. Flames. Air.
10.5. Incompatible materials	
Materials to avoid:	Strong oxidising agents. Strong acids.
10.6. Hazardous decomposition	ו products
Haz. decomp. products:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen fluoride

(HF).

Section 11: Toxicological information

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11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: 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.

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.

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.

regulations regarding disposal.

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 disposed		
	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	

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Section 14: Transport information	lion		
14.1. UN number			
UN number:	* 1 1\1080		
14.2. UN proper shipping name			
Shipping name:	ALDEHYDES, N.O.S.		
	(3,5-Difluorobenzaldehyde)		
14.3. Transport hazard class(es	5)		
Transport class:	* 3		
14.4. Packing group			
Packing group:	* 111		
14.5. Environmental hazards			
Environmentally hazardous:	No Marine pollutant: No		
14.6. Special precautions for u	ser		
Tunnel code:	* D/E		
Transport category:			
Section 15: Regulatory information			
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture		
15.2. Chemical Safety Assessm	nent		
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		
Dhracco used in a 0 and a 0.	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/		
rinases used in S.2 and S.3.	H226: Flammable liquid and vapour. H315: Causes skin irritation.		
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H335: May cause respiratory irritation.

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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.

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