

1,2,3,5-TETRAFLUOROBENZENE

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

1.1. Product identifier

Product name: 1,2,3,5-TETRAFLUOROBENZENE

CAS number: 2367-82-0

EINECS number: 219-126-4

Product code: PC6720

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. 2: H225; Skin Irrit. 2: H315
Most important adverse effects:	Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye
	irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:	
Hazard statements:	H225: Highly flammable liquid and vapour.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Signal words:	Danger
Hazard pictograms:	GHS02: Flame
	GHS07: Exclamation mark

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Precautionary statements:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking.
	P261: Avoid breathing vapours.
	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: 1,2,3,5-TETRAFLUOROBENZENE

CAS number: 2367-82-0

EINECS number: 219-126-4

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: Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

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5.2. Special hazards arising fro	om the substance or mixture
Exposure hazards:	Highly flammable. Forms explosive air-vapour mixture. Vapour may travel considerable
	distance to source of ignition and flash back. In combustion emits toxic fumes of carbon
	dioxide / carbon monoxide. Hydrogen fluoride (HF).
5.3. Advice for fire-fighters	
	Menne of contained by others and states Menne protective elething to provent contact
Advice for fire-fighters.	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact
	with skin and eyes.
Section 6: Accidental release r	neasures
6.1. Personal precautions, prot	tective 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	s
	Do not discharge into drains or rivers. Contain the spillage using bunding.
-	
6.3. Methods and material for c	
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 section	is
Section 7: Handling and storage	ae
	-
7.1. Precautions for safe handl	ing
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	e, 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. Recommended
	storage temp 2-8 °C.
Suitable packaging:	Must only be kept in original packaging.
7.3. Specific end use(s)	
-	
Specific end use(s):	No data available.

Specific end use(s): No data available.

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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. 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 chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Boiling point/range ℃: 82-83

Flash point °C: 4

Melting point/range °C: -48

Relative density: 1.393

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. Stable at room temperature.

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. Hot surfaces. Sources of ignition. Flames.

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. Hydrogen fluoride

(HF).

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Section 11: Toxicological information

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.

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.
NB:	The user's attention is drawn to the possible existence of regional or national
	regulations regarding disposal.

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Marine pollutant: No

Section 14: Transport information

14.1. UN number

UN number: UN1993

14.2. UN proper shipping name

Shipping name: FLAMMABLE LIQUID, N.O.S.

(1,2,3,5-Tetrafluorobenzene)

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

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

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
	* Data predicted using computational software. The OECD QSAR-Toolbox for grouping
	chemicals into categories. Developed by LMC bulgaria.
	http://echa.europa.eu/support/oecd-qsar-toolbox
	~ 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:	H225: Highly flammable liquid and vapour.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.

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