

1,1,2,2-TETRAFLUOROETHYL ISOBUTYL ETHER

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Revision No: 1

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

1.1. Product identifier

Product name: 1,1,2,2-TETRAFLUOROETHYL ISOBUTYL ETHER

CAS number: 18180-34-2

Product code: PC450241

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.

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

 P261: Avoid breathing fumes.

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: 1,1,2,2-TETRAFLUOROETHYL ISOBUTYL ETHER

CAS number: 18180-34-2

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.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. In combustion emits toxic fumes. 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).

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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 n	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	-		
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.		-
6.3. Methods and material for c			
	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for		_
Olcall-up processive.			
	disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.		
6.4. Reference to other sections			
	5		
Section 7: Handling and storag	je		
7.1. Precautions for safe handli	ling		
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 conumons.	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.		
Cuitable neokoging	Ensure lighting and electrical equipment are not a source of ignition.		
	Must only be kept in original packaging.		
7.3. Specific end use(s)			
Specific end use(s):	No data available.		
Section 8: Exposure controls/p	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 chemical properties 9.1. Information on basic physical and chemical properties State: Liquid Evaporation rate: No data available. Oxidising: No data available. Solubility in water: No data available. Viscosity: No data available. Boiling point/range ℃: 93 Melting point/range °C: No data available. Flammability limits %: lower: No data available. upper: No data available. Part.coeff. n-octanol/water: No data available. Flash point °C: 4 Autoflammability°C: No data available. Vapour pressure: No data available.

VOC g/l: No data available.

9.2. Other information

Other information: No data available.

Relative density: 1.1018

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.

pH: No data available.

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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).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for product:

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

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Other information Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830. 2015/830. * Data predicted using computational software. The OECD QSAR-Toolbox for grouping chemicals into categories. Developed by LMC bulgaria.			Page:	6
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		http://echa.europa.eu/support/oecd-qsar-toolbox		

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	~ 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.
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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