

PHENYLSULPHUR PENTAFLUORIDE

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

## 1.1. Product identifier

Product name: PHENYLSULPHUR PENTAFLUORIDE

CAS number: 2557-81-5

Product code: PC49103

Synonyms: (PENTAFLUOROTHIO)BENZENE

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: -: R10; Xn: R22; Xi: R36/37/38 Classification under CLP: STOT SE 3: H335; Acute Tox. 4: H302; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315

Most important adverse effects: Flammable. Harmful if swallowed. Irritating to eyes, respiratory system and skin.

2.2. Label elements

Label elements under CLP:

Hazard statements: H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Signal words: Warning

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Hazard pictograms:GHS02: FlameGHS07: Exclamation markImage: pictograms:GHS07: Exclamation markImage: pictograms:P280: Wear protective gloves/protective clothing/eye protection/face protection.<br/>P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.Label elements under CHIP:Harmful.Hazard symbols:Harmful.Risk phrase:R10: Flammable.<br/>R22: Harmful if swallowed.<br/>R36/37/38: Irritating to eyes, respiratory system and skin.Safety phrase:S16: Keep away from sources of ignition - No smoking.<br/>S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.<br/>S45: In case of accident or if you feel unwell, seek medical advice immediately (show<br/>the label where possible).

## 2.3. Other hazards

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

**PBT:** This substance is not identified as a PBT substance.

### Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: PHENYLSULPHUR PENTAFLUORIDE

# 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.

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

Carbon oxides. Sulphur oxides (SOx). 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. 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.

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7.2. Conditions for safe storage	e, including any incompatibilities		
Storage conditions:	Store in 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. 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/p	personal protection		
8.1. Control parameters			
Workplace exposure limits:	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 chemi	cal properties		
9.1. Information on basic physi	ical and chemical properties		
State:	Liquid		
Boiling point/range℃:	148 Flash point ℃: 43		
Relative density:	1.496		
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 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.

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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). Sulphur oxides (SOx)

# Section 11: Toxicological information

## 11.1. Information on toxicological effects

## Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	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.

**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 substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

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Section 13: Disposal considera	ations			
13.1. Waste treatment methods				
Disposal operations:	MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND			
-1 1	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.			
Section 14: Transport informat	ion			
14.1. UN number				
UN number:	UN1993			
14.2. UN proper shipping name				
Shipping name:	FLAMMABLE LIQUID, N.O.S.			
14.3. Transport hazard class(es	(;			
Transport class:	3			
14.4. Packing group				
Packing group:				
14.5. Environmental hazards				
Environmentally hazardous:	No Marine pollutant: No			
14.6. Special precautions for us	ser			
Section 15: Regulatory informa	ation			
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture			
15.2. Chemical Safety Assessment				
	A chemical safety assessment has not been carried out for the substance or the mixture			
Ononnour ourory acceleration	by the supplier.			
Section 16: Other information				
Other information				
	This safety data sheet is prepared in accordance with Commission Regulation (EU) No			
Other information.	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 computatioanl software ACD/ToxSuite v 2.95.1 Copyright 1994-			

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