

1H-HEPTAFLUOROPENT-1-YNE 97%

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Compilation date: 16/02/2011

Revision date: 21/09/2011

Revision No: 2

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

### 1.1. Product identifier

**Product name:** 1H-HEPTAFLUOROPENT-1-YNE 97%

CAS number: 80337-25-3

Product code: PC3764

#### 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; -: R18

Classification under CLP: Flam. Gas 2: H221

Most important adverse effects: Flammable. In use, may form flammable / explosive vapour-air mixture.

# 2.2. Label elements

Label elements under CLP:

Hazard statements: H221: Flammable gas.

Signal words: Warning

Hazard pictograms: GHS04: Gas cylinder

GHS02: Flame





Precautionary statements: P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P281: Use personal protective equipment as required.

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Label elements under CHIP:

Risk phrases: R10: Flammable.

R18: In use, may form flammable / explosive vapour-air mixture.

**Safety phrases:** S16: Keep away from sources of ignition - No smoking.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S47: Keep at temperature not exceeding °C.

#### 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: 1H-HEPTAFLUOROPENT-1-YNE 97%

#### 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.

**Ingestion:** Wash out mouth with water.

Inhalation: Consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

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

Carbon oxides. 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.

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#### 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. Notify the police and fire

brigade immediately. Eliminate all sources of ignition. Turn leaking containers leak-side

up to prevent the escape of liquid.

### 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: Smoking is forbidden. Use non-sparking tools. Keep container tightly closed. Close

container after use or when empty. Ensure there is sufficient ventilation of the area. Avoid

the formation or spread of mists in the air. Only use in fume hood.

# 7.2. Conditions for safe storage, 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.

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: Not applicable.

# 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:** Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

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# Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

State: Gas

### 9.2. Other information

Other information: Not applicable.

# 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).

# **Section 11: Toxicological information**

### 11.1. Information on toxicological effects

Toxicity values: Not applicable.

# Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness. **Ingestion:** There may be irritation of the throat.

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: Not applicable.

# 12.2. Persistence and degradability

Persistence and degradability: No data available.

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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.

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.

**Section 14: Transport information** 

14.1. UN number

UN number: \* UN1954

14.2. UN proper shipping name

Shipping name: COMPRESSED GAS, FLAMMABLE, N.O.S.

14.3. Transport hazard class(es)

Transport class: \*2

14.4. Packing group

Packing group: \*

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

14.6. Special precautions for user

Tunnel code: \* B/D

Transport category: \*2

**Section 15: Regulatory information** 

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

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### 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. 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 1994-2009 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 3: H221: Flammable gas.

R10: Flammable.

R18: In use, may form flammable / explosive vapour-air mixture.

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.