

A GENTRAL GLASS CO., LTD. COMPANY 1H, 1H-PERFLUOROBUTYL METHACRYLATE, STAB, WITH HYDROQUINONE

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Compilation date: 25/06/2010

**Revision date:** 18/11/2015

Revision No: 3

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

### 1.1. Product identifier

Product name: 1H,1H-PERFLUOROBUTYL METHACRYLATE, STAB. WITH HYDROQUINONE

CAS number: 13695-31-3 EINECS number: 237-217-7 Product code: PC11102

Synonyms: 1H,1H-HEPTAFLUOROBUTYL METHACRYLATE

2,2,3,3,4,4,4-HEPTAFLUOROBUTYL 2-METHYLPROP-2-ENOATE

## 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: Flam. Liq. 3: H226; Acute Tox. 4: H302+312+332; Eye Irrit. 2: H319; STOT SE 3: H335

Most important adverse effects: Flammable liquid and vapour. Harmful if swallowed, in contact with skin or if inhaled.

Causes serious eye irritation. May cause respiratory irritation.

## 2.2. Label elements

Label elements:

Hazard statements: H226: Flammable liquid and vapour.

H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

H319: Causes serious eve irritation. H335: May cause respiratory irritation.

Signal words: Warning

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Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark





Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260: Do not breathe 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: 1H,1H-PERFLUOROBUTYL METHACRYLATE, STAB. WITH HYDROQUINONE

**CAS number:** 13695-31-3 **EINECS number:** 237-217-7

Contains: Stabilised with 20-50 ppm hydroquinone.

### 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.

Drench the affected skin with running water for 10 minutes or longer if substance is still

on skin. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water

to drink immediately. 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. Nausea and stomach

pain may occur. There may be vomiting.

**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

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## 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. 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

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. Recommended

storage temp 2-8 °C.

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Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

### 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: Impermeable gloves.

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

Skin protection: Impermeable protective clothing.

## Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Recognisable

Solubility in water: Not miscible

Boiling point/range ℃: 134-136 Flash point ℃: 36

Relative density: 1.345

# 9.2. Other information

Other information: No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

## 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

## 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.

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## 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 substance:

| Hazard                        | Route       | Basis                 |
|-------------------------------|-------------|-----------------------|
| Acute toxicity (ac. tox. 4)   | INH DRM ING | 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. Nausea and stomach

pain may occur. There may be vomiting.

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: 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

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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: UN3272

### 14.2. UN proper shipping name

Shipping name: ESTERS, N.O.S.

## 14.3. Transport hazard class(es)

Transport class: 3

## 14.4. Packing group

Packing group: III

#### 14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

## 14.6. Special precautions for user

## 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. 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 Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc\_admet/tox/tox/

Phrases used in s.2 and s.3: H226: Flammable liquid and vapour.

H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

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H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

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