

3,4,5-TRIFLUOROSTYRENE, STAB. WITH BUTYLATED HYDROXYTOLUENE

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

1.1. Product identifier

Product name: 3,4,5-TRIFLUOROSTYRENE, STAB. WITH BUTYLATED HYDROXYTOLUENE

CAS number: 159294-99-2

Product code: PC48409

Synonyms: 5-ETHENYL-1,2,3-TRIFLUOROBENZENE

1,2,3-TRIFLUORO-5-VINYLBENZENE

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 Itd

Units 3 & 4 Parkway Denton Manchester M34 3SG UK

Tel: 01616411420

Email: alan.myers@apolloscientific.co.uk

1.4. Emergency telephone number

Emergency tel: -

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. 3: H226; Skin Irrit. 2: H315 Most important adverse effects: Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May

cause respiratory irritation.

2.2. Label elements

Label elements:

Hazard statements: H226: Flammable liquid and vapour.

H315: Causes skin irritation.

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	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Hazard pictograms:	GHS02: Flame
	GHS07: Exclamation mark
Signal words:	Warning
Precautionary statements:	P260: Do not breathe vapours.
	P271: Use only outdoors or in a well-ventilated area.
	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/informa	ation on ingredients
3.1. Substances	
	3,4,5-TRIFLUOROSTYRENE, STAB. WITH BUTYLATED HYDROXYTOLUENE
CAS number:	
	Stabilised with 4-tert-butylcatechol.
Section 4: First aid measures	
4.1. Description of first aid meas	sures
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.
	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 a	and effects, both acute and delayed
Skin contact:	There may be irritation and redness at the site of contact.
	There may be irritation and redness. The eyes may water profusely.
-	There may be soreness and redness of the mouth and throat.
-	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	e medical attention and special treatment needed
-	

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ection 5: Fire-fighting measur	res	
5.1. Extinguishing media		
Extinguishing modicy	Carbon diavida, dry chamical neurdar, form. Suitable avtinguishing modio for the	
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the	
	surrounding fire should be used.	
5.2. Special hazards arising from	m the substance or mixture	
Exposure hazards:	Flammable. Forms explosive air-vapour mixture. 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	
Ū	with skin and eyes.	
ection 6: Accidental release m	-	
6.1. Personal precautions, prote	ective 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	ontainment 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		
ection 7: Handling and storag	e	
7.1. Precautions for safe handli	ng	
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. Light Sensitive.	
	Store under Argon. Recommended storage temp 2-8 °C.	
		[cont

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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: 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		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Viscosity:	No data available.		
Boiling point/range°C:	No data available.	Melting point/range°C:	No data available.
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	No data available.
Relative density:	No data available.	pH:	No data available.
VOC g/l:	No data available.		

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.

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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. Light.

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.

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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.

Section 14: Transport information

14.1. UN number

UN number: UN1993

14.2. UN proper shipping name

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

(3,4,5-Trifluorostyrene)

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Marine pollutant: No

Tunnel code: D/E

Transport category: 3

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 2015/830.	
	* 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:	H226: Flammable liquid and vapour.	
	H315: Causes skin irritation.	
	H319: Causes serious eye irritation.	
	H335: May cause respiratory irritation.	
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