

3,3,3-TRIFLUORO-2,2-DIMETHYLPROPIONIC ACID

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

1.1. Product identifier

Product name: 3,3,3-TRIFLUORO-2,2-DIMETHYLPROPIONIC ACID

CAS number: 889940-13-0

Product code: PC53040

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; Skin Irrit. 2: H315Classification under CHIP:Xi: R36/37/38Most important adverse effects:Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:	
Hazard statements:	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark



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Precautionary statements: P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust.

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

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 3,3,3-TRIFLUORO-2,2-DIMETHYLPROPIONIC ACID

CAS number: 889940-13-0

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: 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: 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.

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Section 6: Accidental release n	neasures	
6.1. Personal precautions, prot	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. Do not	
	create dust.	
6.2. Environmental precautions		
Environmental precautions:	Do not discharge into drains or rivers.	
6.3. Methods and material for c	ontainment and cleaning up	
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate	
	method.	
6.4. Reference to other section	S	
Section 7: Handling and storag		
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 dust in the air. 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.	
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	ersonal 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.	
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency. Respiratory	
	protective device with particle filter.	
Hand protection:	Protective gloves.	
Eye protection:	Safety glasses. Ensure eye bath is to hand.	

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Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Powder

Colour: White

Boiling point/range °C: 76-77 at 19 hPa

Melting point/range °C: 66-71

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.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

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.

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 substance:

Hazard	Route	Basis
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.

[cont...]

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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

13.1. Waste treatment methods	
Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal
	company. 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

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

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.

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ther 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:	H315: Causes skin irritation.	
	H319: Causes serious eye irritation.	
	H335: May cause respiratory irritation.	
	R36/37/38: Irritating to eyes, respiratory system and skin.	
Legend to abbreviations:	PNEC = predicted no effect level	
	DNEL = derived no effect level	
	LD50 = median lethal dose	
	LC50 = median lethal concentration	
	EC50 = median effective concentration	
	IC50 = median inhibitory concentration	
	dw = dry weight	
	bw = body weight	
	cc = closed cup	
	oc = open cup	
	MUS = mouse	
	GPG = guinea pig	
	RBT = rabbit	
	HAM = hamster	
	HMN = human	
	MAM = mammal	
	PGN = pigeon	
	IVN = intravenous	
	SCU = subcutaneous	
	SKN = skin	
	DRM = dermal	
	OCC = ocular/corneal	
	PCP = phycico-chemical properties	

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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.