

TETRAETHYLAMMONIUM PERFLUOROOCTANESULPHONATE

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Revision No: 2

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

1.1. Product identifier

Product name: TETRAETHYLAMMONIUM PERFLUOROOCTANESULPHONATE

CAS number: 56773-42-3

EINECS number: 260-375-3

Product code: PC9610

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:	Acute Tox. 3: H301; Acute Tox. 4: H332; Carc. 2: H351; Lact.: H362; STOT RE 1: H372;
	Aquatic Chronic 3: H412
Most important adverse effects:	Toxic if swallowed. Harmful if inhaled. Suspected of causing cancer. May cause harm to
	breast-fed children. Causes damage to organs through prolonged or repeated
	exposure. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H301: Toxic if swallowed.

H332: Harmful if inhaled.

- H351: Suspected of causing cancer.
- H362: May cause harm to breast-fed children.
- H372: Causes damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

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Signal words: Danger Hazard pictograms: GHS06: Skull and crossbones

GHS08: Health hazard



Precautionary statements: P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/.

P263: Avoid contact during pregnancy.

P308+313: IF exposed or concerned: Get medical attention.

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: TETRAETHYLAMMONIUM PERFLUOROOCTANESULPHONATE

CAS number: 56773-42-3

EINECS number: 260-375-3

Section 4: First aid measures

4.1. Description of first aid mea	asures
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. Transfer to hospital if there are burns or symptoms of poisoning.
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist
	examination.
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water
	to drink immediately. If unconscious, check for breathing and apply artificial respiration if
	necessary. If unconscious and breathing is OK, place in the recovery position. Transfer
	to hospital as soon as possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If
	conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK,
	place in the recovery position. If unconscious, check for breathing and apply artificial
	respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide
	oxygen if available. Transfer to hospital as soon as possible.
4.2. Most important symptoms	and effects, both acute and delayed
Skin contact:	There may be redness or whiteness of the skin in the area of exposure. Irritation or pain

may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting.

Convulsions may occur. There may be loss of consciousness.

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Inhalation:	There may be shortness of breath with a burning sensation in the throat. Absorption		
	through the lungs can occur causing symptoms similar to those of ingestion.		
	Convulsions may occur. There may be loss of consciousness.		
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.		
4.3. Indication of any immediat	e medical attention and special treatment needed		
Immediate / special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in		
	attendance.		
Section 5: Fire-fighting measu			
Section 5. The nyming measu			
5.1. Extinguishing media			
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the		
	surrounding fire should be used. Use water spray to cool containers.		
5.2. Special hazards arising fro	m the substance or mixture		
Exposure hazards:	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen		
·	oxides (NOx). 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 r	neasures		
6.1. Personal precautions, prot	ective equipment and emergency procedures		
Personal precautions:	Notify the police and fire brigade immediately. Evacuate the area immediately. 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 attempt to take action without suitable protective		
	clothing - see section 8 of SDS. Do not create dust.		
6.2. Environmental precautions			
Environmental precautions:	Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes		
	or gas.		
6.3. Methods and material for c			
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific		
	substance. Transfer to a closable, labelled salvage container for disposal by an		
	appropriate method.		
6.4. Reference to other section	S		

Reference to other sections: Refer to section 8 of SDS.

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Section 7: Handling and stora	ge
7.1. Precautions for safe hand	ling
Handling requirements:	Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area.
	Avoid the formation or spread of dust in the air. Only use in fume hood.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Hygroscopic. 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/	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 exhaust ventilation of the area.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency. Particle
	filter class P1 (EN143).
Hand protection:	Nitrile gloves. Breakthrough time of the glove material > 8 hours. the selected protective
	gloves have to satisfy the specs of EU directive 89/686/EEC & the standard EN 374.
Eye protection:	Safety glasses with side-shields. Ensure eye bath is to hand.
Skin protection:	Protective clothing.
Section 9: Physical and chemi	ical properties
9.1. Information on basic phys	ical and chemical properties
State:	Powder
Colour:	White-pale yellow
Solubility in water:	Highly soluble
Melting point/range °C:	184-190 Relative density: 1.58
9.2. Other information	
Other information:	No data available.
Section 10: Stability and react	ivity

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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.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames. Moist air. Humidity.

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. Nitrogen oxides

(NOx). Sulphur oxides (SOx) Hydrogen fluoride (HF).

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	190	mg/kg
DERMAL	RAT	LD50	>2000	mg/kg

Hazardous ingredients:

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DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	190	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH	Hazardous: calculated
Acute toxicity (ac. tox. 3)	ING	Hazardous: calculated
Carcinogenicity		Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain

may occur at the site of contact. Absorption through the skin may be fatal.

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Eye contact:There may be severe pain. The eyes may water profusely.Ingestion:There may be soreness and redness of the mouth and throat. There may be vomiting.
Convulsions may occur. There may be loss of consciousness.Inhalation:There may be shortness of breath with a burning sensation in the throat. Absorption
through the lungs can occur causing symptoms similar to those of ingestion.
Convulsions may occur. There may be loss of consciousness.Delayed / immediate effects:Immediate effects can be expected after short-term exposure.Section 12: Ecological information:Immediate effects

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Soluble in water.

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: Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

 Disposal operations:
 MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND

 FEDERAL REGULATIONS
 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: UN2811

14.2. UN proper shipping name

Shipping name: TOXIC SOLID, ORGANIC, N.O.S.

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	Pa	ige:
14.3. Transport hazard class(e	s)	
Transport class:	6.1	
14.4. Packing group		
Packing group:	III	
14.5. Environmental hazards		
Environmentally hazardous:	No Marine pollutant: No	
14.6. Special precautions for u	ser	
Special precautions:	No special precautions.	
Tunnel code:		
Transport category:	2	
Section 15: Regulatory information	ation	
15.1. Safety, health and environ	nmental regulations/legislation specific for the substance or mixture	
Specific regulations:	Not applicable.	
15.2. Chemical Safety Assessn	ient	
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	
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 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:		
	H332: Harmful if inhaled.	
	H351: Suspected of causing cancer <state conclusively="" exposure="" if="" is="" it="" of="" proven<="" route="" td=""><td></td></state>	
	that no other routes of exposure cause the hazard>.	
	H362: May cause harm to breast-fed children.	
	H372: Causes damage to organs <or affected,="" all="" if="" known="" organs="" state=""> through</or>	
	prolonged or repeated exposure <state conclusively="" exposure="" if="" is="" it="" of="" proven="" route="" td="" that<=""><td></td></state>	
	no other routes of exposure cause the hazard>.	
	H412: Harmful to aquatic life with long lasting effects.	

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