

FLUOROACETIC ACID

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Compilation date: 09/08/2011

Revision No: 1

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

1.1. Product identifier

Product name: FLUOROACETIC ACID

CAS number: 144-49-0

EINECS number: 205-631-7

Product code: PC1552

Synonyms: CYMONIC ACID

FLUOROETHANOIC ACID

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:	T+: R28; N: R50
Classification under CLP:	Acute Tox. 2: H300; Aquatic Acute 1: H400
Most important adverse effects:	Very toxic if swallowed. Very toxic to aquatic organisms.

2.2. Label elements

Label elements under CLP:

Hazard statements: H300: Fatal if swallowed.

H400: Very toxic to aquatic life.

Signal words: Danger

Hazard pictograms: GHS06: Skull and crossbones

GHS09: Environmental



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Precautionary statements: P281: Use personal	protective equipment as required.	
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P271: Use only outdoors or in a well-ventilated area.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Label elements under CHIP:

Hazard symbols: Dangerous for the environment.

Very toxic.



	Sor. Avoid release to the environment. Here to special instructions / safety data sheets.
	S61: Avoid release to the environment. Refer to special instructions / safety data sheets.
	the label where possible).
	S45: In case of accident or if you feel unwell, seek medical advice immediately (show
	C4E. In special stands with your fact your all special and include instructionalistation (show
	medical advice.
	S26: In case of contact with eyes, rinse immediately with plenty of water and seek
	S22: Do not breathe dust.
	S20: When using do not eat or drink.
<i>,</i> ,	
Safety phrases:	S1/2: Keep locked up and out of the reach of children.
	R50: Very toxic to aquatic organisms.
Risk phrases:	R28: Very toxic if swallowed.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: FLUOROACETIC ACID

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact:	ntact: 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

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	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.
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	res
5.1. Extinguishing media	
5.1. Extinguishing media	
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the
	surrounding fire should be used. DO NOT USE WATER
5.2. Special hazards arising from	m the substance or mixture
Exposure hazards:	Toxic. 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 r	·
6.1. Personal precautions, pro	ective equipment and emergency procedures
Personal precautions:	Notify the police and fire brigade 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.

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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

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6.4. Reference to other sections

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

6.3. Methods and material for containment and cleaning up

appropriate method.

Section 7: Handling and storage

7.1. Precautions for safe handling

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 storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids. Product is hygroscopic. Take precautions to avoid contact with atmospheric moisture. 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 exhaust ventilation of the area. The floor of the storage room must be
	impermeable to prevent the escape of liquids.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency. Particle
	filter class P1 (EN143).
Hand protection:	Protective gloves.
Eye protection:	Safety glasses with side-shields. 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: Solid Colour: Colourless Odour: Pungent Solubility in water: Soluble Boiling point/range ℃: 165 Relative density: 1.35

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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.

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. Moist air. Humidity.

10.5. Incompatible materials

Materials to avoid: Water. Bases. Metals.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 2)	ING	Based on test data

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.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.

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Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

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 substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil 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

 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: UN2642

14.2. UN proper shipping name

Shipping name: FLUOROACETIC ACID

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: |

14.5. Environmental hazards

Environmentally hazardous: Yes

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14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: C/E

Transport category: 1

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.

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
Phrases used in s.2 and 3:	H300: Fatal if swallowed.
	H400: Very toxic to aquatic life.
	R28: Very toxic if swallowed.
	R50: Very toxic to aquatic organisms.
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
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