

2-AMINO-5-CHLORO-3-FLUOROPYRIDINE

Page: 1

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

1.1. Product identifier

Product name: 2-AMINO-5-CHLORO-3-FLUOROPYRIDINE

CAS number: 246847-98-3

Product code: PC1964

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+311+331; Aquatic Acute 1: H400; Eye Irrit. 2: H319
 Most important adverse effects: Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. Very toxic to aquatic life.

2.2. Label elements

Label elements:			
Hazard statements:	H301+311+331: Toxic if swallowed, in contact with skin or if inhaled.		
	H319: Causes serious eye irritation.		
	H400: Very toxic to aquatic life.		
Signal words:	Danger		
Hazard pictograms:	GHS06: Skull and crossbones		
	GHS09: Environmental		



2-AMINO-5-CHLORO-3-FLUOROPYRIDINE

Precautionary statements: P312: Call a POISON CENTER/doctor//if you feel unwell.

P273: Avoid release to the environment.

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: 2-AMINO-5-CHLORO-3-FLUOROPYRIDINE

CAS number: 246847-98-3

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. 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 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.

2-AMINO-5-CHLORO-3-FLUOROPYRIDINE

4.3. Indication of any immediate 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				
	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the			
Extinguishing media.	surrounding fire should be used. Use water spray to cool containers.			
5.2. Special hazards arising fro				
	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen			
	chloride (HCI). Hydrogen fluoride (HF). Nitrogen oxides (NOx).			
5.3. Advice for fire-fighters				
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact			
5	with skin and eyes.			
Section 6: Accidental release r	neasures			
6.1. Personal precautions, prot	ective equipment and emergency procedures			
	Notify the police and fire brigade immediately. If outside do not approach from			
reisonal precautions.	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	3			
Environmental precautions:	Do not discharge into drains or rivers.			
6.3. Methods and material for c	containment and cleaning up			
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 sections				
Reference to other sections:	Refer to section 8 of SDS.			
Section 7: Handling and storage				
7.1. Precautions for safe handling				
	ing			

Avoid the formation or spread of dust in the air. Only use in fume hood.

2-AMINO-5-CHLORO-3-FLUOROPYRIDINE

7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids. Store under Argon. Suitable packaging: Must only be kept in original packaging. 7.3. Specific end use(s) For the storage condition of the storage condition of the storage condition of the storage condition of the storage room must be impermeable to prevent the escape of liquids. Store under Argon.		
storage room must be impermeable to prevent the escape of liquids. Store under Argon. Suitable packaging: Must only be kept in original packaging.		
Suitable packaging: Must only be kept in original packaging.		
7.3. Specific end use(s)		
Specific end use(s): No data available.		
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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. 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	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	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.	Safety glasses with side-shields. Ensure eye bath is to hand.	
Skin protection: Protective clothing.	Protective clothing.	
Section 9: Physical and chemical properties		
0.1. Information on basis abusised and chemical properties		
9.1. Information on basic physical and chemical properties		
State: Solid		
Colour: Cream		
Solubility in water: Insoluble		
Melting point/range °C: 91-95 Part.coeff. n-octanol/water: logPow: 1.305	;	
9.2. Other information		

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.

2-AMINO-5-CHLORO-3-FLUOROPYRIDINE

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.

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). Hydrogen chloride (HCl). Hydrogen fluoride (HF).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	INH DRM ING	Hazardous: calculated
Serious eye damage/irritation	OPT	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.
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.
Other information:	Structural alert for genotoxic carcinogenicity. (predicted *)

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Persistent chemical (predicted *)

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

2-AMINO-5-CHLORO-3-FLUOROPYRIDINE

12.4. Mobility in soil

Mobility: Insoluble 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: 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: UN2811

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

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

Specific regulations: Not applicable.

Marine pollutant: No

2-AMINO-5-CHLORO-3-FLUOROPYRIDINE

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: H301+311+331: Toxic if swallowed, in contact with skin or if inhaled. H319: Causes serious eye irritation. H400: Very toxic to aquatic life. 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 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.