

3-CHLORO-2-FLUOROPHENOL

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

## 1.1. Product identifier

Product name: 3-CHLORO-2-FLUOROPHENOL

CAS number: 2613-22-1

EINECS number: 220-042-5

Product code: PC0130

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: Xn: R20/21/22; C: R34; N: R51/53 Classification under CLP: Acute Tox. 4: H302+312+332; Aquatic Chronic 2: H411; Skin Corr. 1B: H314 Most important adverse effects: Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

Label elements under CLP:		
Hazard statements:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.	
	H314: Causes severe skin burns and eye damage.	
	H411: Toxic to aquatic life with long lasting effects.	
Signal words:	Danger	
Hazard pictograms:	GHS05: Corrosion	
	GHS07: Exclamation mark	
	GHS09: Environmental	[cont]

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

P309+311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor.

#### Label elements under CHIP:

Hazard symbols: Dangerous for the environment.

Corrosive.



**Risk phrases:** R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S23: Do not breathe Dust / Vapour.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show

the label where possible).

# 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: 3-CHLORO-2-FLUOROPHENOL

## 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.<br/>Drench the affected skin with running water for 10 minutes or longer if substance is still<br/>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<br/>examination.Ingestion:Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10<br/>minutes. If unconscious, check for breathing and apply artificial respiration if necessary.<br/>If unconscious and breathing is OK, place in the recovery position. Transfer to hospital<br/>as soon as possible.

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Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If	
	unconscious and breathing is OK, place in the recovery position. If conscious, ensure	
	the casualty sits or lies down. 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: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. 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. Use water spray to cool containers.

#### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen chloride (HCI). 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 measures

6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Notify the police and fire brigade immediately. 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.

## 6.3. Methods and material for 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.

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#### 6.4. Reference to other sections

## Section 7: Handling and storage

#### 7.1. Precautions for safe handling

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, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. 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.

#### 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<br/>protective device with particle filter.Hand protection:Protective gloves.Eye protection:Tightly fitting safety goggles. 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: White Oxidising: Non-oxidising (by EC criteria) Solubility in water: Insoluble

Boiling point/range℃: 190

Melting point/range °C: 34-38

#### 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.

## 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

chloride (HCI). Hydrogen fluoride (HF).

# Section 11: Toxicological information

## 11.1. Information on toxicological effects

## Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

## Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. 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 substance is not identified as a PBT 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: UN3261

14.2. UN proper shipping name

Shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

14.6. Special precautions for user

Tunnel code: E

Transport category: 3

#### 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

Marine pollutant: No

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# Section 16: Other information

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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 computatioanl 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 3:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
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	environment.
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