

3-CHLORO-4-HYDROXYBENZOTRIFLUORIDE

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

## 1.1. Product identifier

Product name: 3-CHLORO-4-HYDROXYBENZOTRIFLUORIDE

CAS number: 35852-58-5

Product code: PC1930R

Synonyms: 2-CHLORO-4-(TRIFLUOROMETHYL)PHENOL, 3-CHLORO-4-HYDROXY-ALPHA,ALPHA,ALPHA-TRIFLUO

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

UIX

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; Xi: R36/37/38
Classification under CLP:	Acute Tox. 4: H302+312+332; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315
Most important adverse effects:	Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory
	system and skin.

### 2.2. Label elements

Label elements under CLP:	
Hazard statements:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
	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.

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

Label elements under CHIP:

Hazard symbols: Harmful.



Risk phrases:	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
	R36/37/38: Irritating to eyes, respiratory system and skin.
Safety phrases:	S26: In case of contact with eyes, rinse immediately with plenty of water and seek
	medical advice.
	S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

## 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-4-HYDROXYBENZOTRIFLUORIDE

## Section 4: 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. Consult a doctor.	
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.	
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water	
	to drink immediately. 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. Nausea and stomach	
	pain may occur. There may be vomiting.	
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.	
	mere may be initiation of the throat with a reening of lightness in the chest.	

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#### 4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: No data available.

## 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:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen chloride (HCl). 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:** 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. Turn leaking containers leak-side up to prevent the escape of liquid.

#### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

#### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. 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

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 mists 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. Recommended storage temp 2-8 °C. Store under Argon.

Suitable packaging: Must only be kept in original packaging.

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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 sufficient ventilation of the area.	
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.	
Hand protection:	Impermeable gloves.	
Eye protection:	Safety glasses. Ensure eye bath is to hand.	
Skin protection:	Impermeable protective clothing.	
Environmental:	Not applicable.	
Section 9: Physical and chemi	cal properties	
9.1. Information on basic physic	ical and chemical properties	
State:	Liquid	
Oxidising:	Non-oxidising (by EC criteria)	
Boiling point/range °C:	64-66/13mmHg Flash point °C: 68	
9.2. Other information		
Other information:	Not applicable.	
Section 10: Stability and react	ivity	
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. Air. Moist air.

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. HF, HCI

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### 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
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.Ingestion:There may be soreness and redness of the mouth and throat. Nausea and stomach<br/>pain may occur. There may be vomiting.Inhalation:There may be irritation of the throat with a feeling of tightness in the chest.Delayed / immediate effects:No data available.Other information:High hazard Class III chemical : assigned according to Cramer decision tree with<br/>extensions (predicted \*) Structural alert for nongenotoxic carcinogenicity. (predicted \*)

## Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

## 12.2. Persistence and degradability

Persistence and degradability: Persistent chemical (predicted \*)

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: 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

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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 informat	ion		
Transport class:	This product does not require a classification for transport.		
Section 15: Regulatory information	ation		
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture		
15.2. Chemical Safety Assessm	ent		
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 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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	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.		
	R36/37/38: Irritating to eyes, respiratory system and skin.		
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		
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