

4-CHLORO-2,5-DIFLUOROBENZOYL CHLORIDE

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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: 4-CHLORO-2,5-DIFLUOROBENZOYL CHLORIDE

CAS number: 132794-08-2

Product code: PC0834

1.2. Relevant identified uses of the substance or mixture and uses advised against

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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
Classification under CLP:	Acute Tox. 4: H302+312+332; Skin Corr. 1B: H314
Most important adverse effects:	Harmful by inhalation, in contact with skin and if swallowed. Causes burns.
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.
Signal words:	Danger
Hazard pictograms:	GHS05: Corrosion
	GHS07: Exclamation mark
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Precautionary statements:	P260: Do not breathe vapours.		
	P280: Wear protective gloves/protective clothing/eye protection.		
	P308+313: IF exposed or concerned: Get medical advice/attention.		
Label elements under CHIP:			
Hazard symbols:	Corrosive.		
Risk phrases:	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.		
	R34: Causes burns.		
Safety phrases:	S24/25: Avoid contact with skin and eyes.		
	S26: In case of contact with eyes, rinse immediately with plenty of water and seek		
	medical advice.		
	S36: Wear suitable protective clothing.		
2.3. Other hazards			
PBT:	This substance is not identified as a PBT substance.		
Section 3: Composition/inform	nation on ingredients		
3.1. Substances			
Chemical identity:	4-CHLORO-2,5-DIFLUOROBENZOYL CHLORIDE		
CAS number:	132794-08-2		
Section 4: First aid measures			
4.1. Description of first aid mea	asures		
Skin contact:	Remove all contaminated elether and featwar immediately unloss stuck to skin		
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		
Eve contectu	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		
In	examination.		
ingestion:	Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10		

- minutes. 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 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.

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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 immediat	e medical attention and special treatment needed	
Section 5: Fire-fighting measu	res	
5.1. Extinguishing media		
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the	
	surrounding fire should be used.	
5.2. Special hazards arising fro	m 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	
Advice for the lighters.	with skin and eyes.	
Section 6: Accidental release r	·	
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. 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. Turn leaking containers leak-side up to prevent the	
	escape of liquid.	
6.2. Environmental precautions	3	
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.	
6.3. Methods and material for c	ontainment and cleaning up	
	Clean up should be dealt with only by gualified personnal familiar with the aposition	

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. 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

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.

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7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Keep container tightly closed. Product reacts with water. Take precautions to avoid contact with atmospheric moisture. 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 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.

Hand protection: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Solubility in water: Reacts with water.

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.

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. Moist air. Humidity.

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10.5. Incompatible materials

Materials to avoid: Water. Strong oxidising agents. Strong bases.

10.6. Hazardous decomposition products

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

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.

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Section 12: Disposal consider	tions
Section 13: Disposal considera	tions
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 informat	ion
-	
14.1. UN number	
UN number:	UN3265
14.2. UN proper shipping name	
Shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
14.3. Transport hazard class(es	
Transport class:	8
14.4. Packing group	
Packing group:	
14.5. Environmental hazards	
Environmentally hazardous:	No Marine pollutant: No
14.6. Special precautions for us	ser
Tunnel code:	E
Transport category:	
Section 15: Regulatory informa	ition
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	by the supplier.
	by the supplier.
Section 16: Other information Other information	by the supplier.
Other information	by the supplier.
Other information	
Other information	This safety data sheet is prepared in accordance with Commission Regulation (EU) No
Other information	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

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	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.
	R34: Causes burns.
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