

2,3,5-TRIFLUOROBENZOYL CHLORIDE

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Compilation date: 25/02/2005

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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: 2,3,5-TRIFLUOROBENZOYL CHLORIDE

CAS number: 240800-48-0

Product code: PC5643

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

Other hazards: Lachrymatory.

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2,3,5-TRIFLUOROBENZOYL CHLORIDE

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. 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.

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

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Section 7: Handling and storage		
Reference to other sections:	Refer to section 8 of SDS.	
6.4. Reference to other section	S	
	container for disposal by an appropriate method.	
	substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage	
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific	
6.3. Methods and material for c	containment and cleaning up	
-	Do not discharge into drains or rivers. Contain the spillage using bunding.	
6.2. Environmental precautions		
6.0 Environmentel processi	escape of liquid.	
	clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the	
	to unauthorised personnel. Do not attempt to take action without suitable protective	
	away from danger point. Mark out the contaminated area with signs and prevent access	
Personal precautions:	Notify the police and fire brigade immediately. If outside keep bystanders upwind and	
6.1. Personal precautions, prot	ective equipment and emergency procedures	
Section 6: Accidental release r	·	
	with skin and eyes.	
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact	
5.3. Advice for fire-fighters		
•	Hydrogen chloride (HCI). Hydrogen fluoride (HF).	
Exposure hazards:	Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.	
5.2. Special hazards arising fro	om the substance or mixture	
	surrounding fire should be used. Use water spray to cool containers.	
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the	
5.1. Extinguishing media		
Section 5: Fire-fighting measu	res	
	Eye bathing equipment should be available on the premises.	
	e medical attention and special treatment needed	
-	Immediate effects can be expected after short-term exposure.	
Delayed (include the set of the	cause coughing or wheezing.	
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Exposure may	
	bleeding from the mouth or nose.	
Ingestion:	Corrosive burns may appear around the lips. Blood may be vomited. There may be	
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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 tume hood. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Store under Argon. Suitable packaging: Must only be kept in original packaging. 7.3. Specific end use(s) 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 Self-contained breathing apparatus must be available in case of emergency. Hand protection: Hand protection: Inpermeable gloves. Eye protection: Skin protection: Inpermeable gloves. Eye protection: State: Lquid Odou: Lachrymatory 9.1. Information on basic physical and chemical properties State: Lquid Odou: State: Lquid Odou: 10.1. Reactivity Stabe under recommended transport or storage conditions. 10.2. Chemical stability Stabe under recommended transport or storage conditions. 10.3. Possibility of hazardo		Fage. 4
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Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

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10.4. Conditions to avoid

Conditions to avoid: Heat. Moist air. Humidity.

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.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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.

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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: 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 user

Special precautions: No special precautions.

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

by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

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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.
	H314: Causes severe skin burns and eye damage.
	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
	R34: Causes burns.
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.