

2,4-DICHLOROPYRIMIDINE-5-CARBONYL CHLORIDE

Page: 1

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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: 2,4-DICHLOROPYRIMIDINE-5-CARBONYL CHLORIDE

CAS number: 2972-52-3

Product code: OR2807

Synonyms: 5-(CHLOROCARBONYL)-2,4-DICHLOROPYRIMIDINE

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; Xi: R37
Classification under CLP:	Acute Tox. 4: H302+312+332; Skin Corr. 1B: H314; STOT SE 3: H335
Most important adverse effects:	Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to
	respiratory system.

#### 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.
	H335: May cause respiratory irritation.
Signal words:	Danger
Hazard pictograms:	GHS05: Corrosion
	GHS07: Exclamation mark

#### 2,4-DICHLOROPYRIMIDINE-5-CARBONYL CHLORIDE



**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.R37: Irritating to respiratory system.Safety phrases:S26: In case of contact with eyes, rinse immediately with plenty of water and seek<br/>medical advice.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<br/>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: 2,4-DICHLOROPYRIMIDINE-5-CARBONYL 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.

## 2,4-DICHLOROPYRIMIDINE-5-CARBONYL CHLORIDE

		Tage: 0
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 immediat	e medical attention and special treatment needed	
Ocation 5. Fina finition masses		
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. Use water spray to cool containers.	
5.2. Special hazards arising fro	om the substance or mixture	
Exposure bazarde:	Corrosive. In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx).	
	Hydrogen chloride (HCl).	
E 2 Advice for fire fighters		
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 r	neasures	
6.1. Personal precautions, prot	tective equipment and emergency procedures	
Personal precautions:	Notify the police and fire brigade immediately. If outside keep bystanders upwind and	
<b>P</b>	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	ана на	
Environmental processiones	De not discharge inte draine er rivere. Contain the spillage using hunding	
-	Do not discharge into drains or rivers. Contain the spillage using bunding.	
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. Absorb into dry earth or sand. Transfer to a closable, labelled salvage	
	container for disposal by an appropriate method.	
6.4. Reference to other section	S	
Section 7: Handling and storage	ne la	

## 2,4-DICHLOROPYRIMIDINE-5-CARBONYL CHLORIDE

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 in cool, well ventilated area. Keep container tightly closed. Moisture sensitive. Store under Argon. Store at -20 °C         Suitable packaging:       Must only be kept in original packaging.         7.3. Specific end use(s)       Store in order argon. Store at -20 °C         Suitable packaging:       Must only be kept in original packaging.         7.3. 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:         Engineering measures:       Ensure there is sufficient ventilation of the area.         Respiratory protection:       Impermeable gloves.         Eye protection:       Impermeable gloves.         Eye protection:       Impermeable protective clothing.         Section 9: Physical and chemical properties       9.1. Information on basic physical and chemical properties         9.1. Information on basic physical and chemical properties       9.2. Other informatio			Page:	
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	10.1. Reactivity			
10.2. Chemical stability	Reactivity:	Stable under recommended transport or storage conditions.		
	10.2. Chemical stability			

Chemical stability: Stable under normal conditions.

#### 2,4-DICHLOROPYRIMIDINE-5-CARBONYL CHLORIDE

#### 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.

#### 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). Nitrogen oxides (NOx).

#### 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: 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: Not applicable.

#### 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.

#### 2,4-DICHLOROPYRIMIDINE-5-CARBONYL CHLORIDE

# Page: 6 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: 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: III 14.5. Environmental hazards Environmentally hazardous: No Marine pollutant: No 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 by the supplier. Section 16: Other information

## 2,4-DICHLOROPYRIMIDINE-5-CARBONYL CHLORIDE

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.
	H314: Causes severe skin burns and eye damage.
	H335: May cause respiratory irritation.
	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
	R34: Causes burns.
	R37: Irritating to respiratory system.
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.