

2,6-DICHLOROPYRIDIN-4-YL ISOCYANATE

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

1.1. Product identifier

Product name: 2,6-DICHLOROPYRIDIN-4-YL ISOCYANATE

CAS number: 159178-03-7

Product code: OR27051

Synonyms: 2,6-DICHLORO-4-ISOCYANATOPYRIDINE

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 CLP:	STOT SE 3: H335; Acute Tox. 3: H331; Acute Tox. 4: H302+312; Eye Irrit. 2: H319; Resp.
	Sens. 1A: H334; Skin Irrit. 2: H315; Skin Sens. 1A: H317; -: EUH204
Most important adverse effects:	Harmful if swallowed or in contact with skin. Causes skin irritation. May cause an
	allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause allergy or
	asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
	Contains isocyanates. May produce an allergic reaction.

2.2. Label elements

Label elements:

Hazard statements: H302+312: Harmful if swallowed or in contact with skin.

H315: Causes skin irritation.

- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.

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H331: Toxic if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

EUH204: Contains isocyanates. May produce an allergic reaction.

Signal words: Danger

Hazard pictograms: GHS06: Skull and crossbones

GHS08: Health hazard



Precautionary statements: P260: Do not breathe Dust/Vapours.

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

P342+311: If experiencing respiratory symptoms: Call a.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2,6-DICHLOROPYRIDIN-4-YL ISOCYANATE

CAS number: 159178-03-7

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. If conscious, give half a litre of water
	to drink immediately. 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
	conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK,
	place in the recovery position. If unconscious, check for breathing and apply artificial
	respiration if necessary. 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: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

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Eye contact:	There may be severe pain. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat. There may be vomiting.
	Convulsions may occur. There may be loss of consciousness.
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Absorption
	through the lungs can occur causing symptoms similar to those of ingestion.
	Convulsions may occur. There may be loss of consciousness.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.
4.3. Indication of any immediat	e medical attention and special treatment needed
Immediate / special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in
	attendance.
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	m the substance or mixture
Exposure hazards:	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen
	oxides (NOx). Hydrogen chloride (HCl).
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	ective equipment and emergency procedures
Personal precautions:	Notify the police and fire brigade immediately. 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. Do not
	attempt to take action without suitable protective clothing - see section 8 of SDS. Do not
	create dust.
6.2. Environmental precautions	3
Environmental precautions:	Do not discharge into drains or rivers.
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. Transfer to a closable, labelled salvage container for disposal by an
	appropriate method.
6.4. Reference to other section	

Reference to other sections: Refer to section 8 of SDS.

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Section 7: Handling and storage 7.1. Precautions for safe handling Handling requirements: Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. 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 a cool, well ventilated area. Keep container tightly closed. Moisture sensitive. Store under Argon. Recommended storage temp 2-8 °C. 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 Values** DNEL / PNEC No data available. 8.2. Exposure controls Engineering measures: Ensure there is exhaust ventilation of the area. Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Particle filter class P1 (EN143).

Hand protection: Protective gloves.

Eye protection: Safety glasses with side-shields. 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:	Colourless		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Viscosity:	No data available.		
Boiling point/range℃:	No data available. Melting point/ran	ge°C:	25.8-26.8
Flammability limits %: lower:	No data available.	pper:	No data available.
Flash point℃:	No data available. Part.coeff. n-octanol/w	ater:	No data available.
Autoflammability°C:	No data available. Vapour pres	sure:	No data available.
Relative density:	No data available.	pH:	No data available.
VOC g/l:	No data available.		

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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.

Decomposition may occur on exposure to conditions or materials listed below.

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. Nitrogen oxides

(NOx). Hydrogen chloride (HCI).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	DRM ING	Hazardous: calculated
Acute toxicity (ac. tox. 3)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption

through the lungs can occur causing symptoms similar to those of ingestion.

Convulsions may occur. There may be loss of consciousness.

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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 product is not identified as a PBT/vPvB 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: UN2206

14.2. UN proper shipping name

Shipping name: ISOCYANATES, TOXIC, N.O.S.

(2,6-Dichloropyridin-4-yl isocyanate)

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: III

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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: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

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 2015/830.
	* Data predicted using computational software. The OECD QSAR-Toolbox for grouping
	chemicals into categories. Developed by LMC bulgaria.
	http://echa.europa.eu/support/oecd-qsar-toolbox
	~ Data predicted using computational 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 s.3:	EUH204: Contains isocyanates. May produce an allergic reaction.
	H302+312: Harmful if swallowed or in contact with skin.
	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H319: Causes serious eye irritation.
	H331: Toxic if inhaled.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335: May cause respiratory irritation.
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

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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.

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