

5-CHLORO-2-METHYLPHENYL ISOCYANATE

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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: 5-CHLORO-2-METHYLPHENYL ISOCYANATE

CAS number: 40411-27-6

Product code: OR59455

Synonyms: 4-CHLORO-2-ISOCYANATOTOLUENE

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; 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; -:	
	EUH204	
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.	
	EUH204: Contains isocyanates. May produce an allergic reaction.	

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Signal words: Warning Hazard pictograms: GHS07: Exclamation mark



Precautionary statements: 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.
	S38: In case of insufficient ventilation, wear suitable respiratory equipment.
	S45: In case of accident or if you feel unwell, seek medical advice immediately (show
	the label where possible).
	S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.
Precautionary phrases:	Contains isocyanates. See information supplied by the manufacturer.

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: 5-CHLORO-2-METHYLPHENYL ISOCYANATE

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. 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.

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4.2. Most important symptoms	and effects, both acute and delayed	
Skin contact:	There may be irritation and redness at the site of contact.	
	There may be irritation and redness. The eyes may water profusely.	
	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.	
	te medical attention and special treatment needed	
Continue Er Eiro fighting mageu		
Section 5: Fire-fighting measur	/es	
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		
Exposure hazards:	In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx). Hydrogen	
Enpoon o main act	chloride (HCI).	
5.0 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 n	neasures	
6.1. Personal precautions, prot	tective 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		
	Do not discharge into drains or rivers. Contain the spillage using bunding.	
6.3. Methods and material for c		
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 section	5	
Section 7: Handling and storage	je	
7.1. Precautions for safe handl	ing	

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: Store in cool, well ventilated area. Keep container tightly closed. Moisture sensitive.

Store under Argon. Recommended storage temp 2-8 ℃.

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.

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.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid Colour: Colourless Odour: Lachrymatory Solubility in water: Hydrolyses

Boiling point/range ℃: 115@5mmHg

Relative density: 1.226

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.

Flash point °C: 108

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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). 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: 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.

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: UN2206

14.2. UN proper shipping name

Shipping name: ISOCYANATE SOLUTION, TOXIC, N.O.S.

(5-Chloro-2-methylphenyl isocyanate)

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: 2

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:	EUH204: Contains isocyanates. May produce an allergic reaction.
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