

5,6-DICHLORO-2-(TRIFLUOROMETHYL)-1H-BENZIMIDAZOLE

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

1.1. Product identifier

Product name: 5,6-DICHLORO-2-(TRIFLUOROMETHYL)-1H-BENZIMIDAZOLE

CAS number: 2338-25-2

Product code: PC450181

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

Emergency tel: -

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP:	Acute Tox. 2: H300; Acute Tox. 3: H311+H331; STOT SE 3: H335; Eye Irrit. 2: H319; Skin
	Irrit. 2: H315
Most important adverse effects:	Fatal if swallowed. Toxic in contact with skin or if inhaled Causes skin irritation. Causes
	serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:

Hazard statements:	H300: Fatal if swallowed.
	H311+H331: Toxic in contact with skin or if inhaled
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Hazard pictograms: GHS06: Skull and crossbones



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Signal words:	Danger
Precautionary statements:	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER.
	P361+P364: Take off immediately all contaminated clothing and wash it before reuse.

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: 5,6-DICHLORO-2-(TRIFLUOROMETHYL)-1H-BENZIMIDAZOLE

CAS number: 2338-25-2

Section 4: First aid measures

4.1. Description of first aid mea	asures
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:	Do not induce vomiting. If conscious, give half a litre of water to drink immediately. 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. Transfer to
	hospital as soon as possible.
4.2. Most important symptoms	and effects, both acute and delayed
Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be pain and redness.
Ingestion:	There may be soreness and redness of the mouth and throat. Severe poisoning can
	cause unconsciousness and severe and persistent nausea and vomiting. Severe
	poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can
	cause vision to be blurred or blindness, severe headache and rapid gasping breathing.
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. Nausea
	and stomach pain may occur.
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.

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Section 5: Sire fighting massu	
Section 5: Fire-fighting measur	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
· · ·	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen
EXPOSUIC HAZAINS.	oxides (NOx). Hydrogen chloride (HCl). Hydrogen fluoride (HF).
5.0 Advice for fire fightore	
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.
ection 6: Accidental release n	neasures
6.1. Personal precautions, prof	tective 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. Do not create dust.
6.2. 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	IS
Reference to other sections:	Refer to section 8 of SDS.
ection 7: Handling and storag	ae
	-
7.1. Precautions for safe handling	
Handling requirements:	Avoid the formation or spread of dust in the air. Ensure there is sufficient ventilation of
	the area. Only use in fume hood.
7.2. Conditions for safe storage	e, including any incompatibilities
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Moisture sensitive.
	Store under Argon.
Suitable packaging:	Must only be kept in original packaging.

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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 sufficient ventilation of the area.Respiratory protection:Self-contained breathing apparatus must be available in case of emergency. Respiratory
protective device with particle filter.Hand protection:Protective gloves.Eye protection:Safety glasses. 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		
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/range °C:	238-240
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point ℃:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability℃:	No data available.	Vapour pressure:	No data available.
Relative density:	No data available.	pH:	No data available.
VOC g/I:	No data available.		

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.

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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

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(NOx). Hydrogen chloride (HCl). Hydrogen fluoride (HF).
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Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	Rat	LD50	7.8	mg/kg

Hazardous ingredients:

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ORAL	Rat	LD50	7.8	mg/kg
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Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	INH DRM	Hazardous: calculated
Acute toxicity (ac. tox. 2)	ING	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 irritation and redness at the site of contact.

Eye contact: There may be pain and redness.

- **Ingestion:** There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing.
- 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. Nausea and stomach pain may occur.

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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: UN2811

14.2. UN proper shipping name

Shipping name: TOXIC SOLID, ORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: No

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14.6. Special precautions for us	ser		
Special precautions:	No special precautions.		
Tunnel code:	D/E		
Transport category:	2		
ection 15: Regulatory informa	ition		
15.1. Safety, health and enviror	mental regulations/legislation specific for the substance or mixture		
Specific regulations:	Not applicable.		
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.		
ection 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:	H300: Fatal if swallowed.		
	H311+H331: Toxic in contact with skin or if inhaled		
	H315: Causes skin irritation.		
	H319: Causes serious eye irritation.		
	H335: May cause respiratory irritation.		
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	by those who have been fully trained in safety, laboratory and chemical handling		
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