

ISOTHIAZOLE-3-CARBONITRILE

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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: ISOTHIAZOLE-3-CARBONITRILE

CAS number: 1452-17-1

Product code: OR40802

Synonyms: 3-CYANOISOTHIAZOLE

1,2-THIAZOLE-3-CARBONITRILE

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 Itd

Units 3 & 4 Parkway Denton Manchester M34 3SG UK

Tel: 01616411420

Email: alan.myers@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. 4: H302+H312+H332; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315

Most important adverse effects: Harmful if swallowed, 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:
 H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled

H315: Causes skin irritation.

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H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 Hazard pictograms:
 GHS07: Exclamation mark
 Signal words:
 Warning
 Precautionary statements:
 P261: Avoid breathing dust.
 P271: Use only outdoors or in a well-ventilated area.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

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: ISOTHIAZOLE-3-CARBONITRILE

CAS number: 1452-17-1

# 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.

#### 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 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.

### 4.3. Indication of any immediate medical attention and special treatment needed

### Section 5: Fire-fighting measures

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5.1. Extinguishing media			
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the		
	surrounding fire should be used.		
5.2. Special hazards arising from	n the substance or mixture		
Exposure bazarde:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides		
	(NOx). Sulphur oxides (SOx).		
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 m	easures		
6.1. Personal precautions, prote	ective 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.		
6.2. Environmental precautions			
	Do not discharge into drains or rivers.		_
6.3. Methods and material for co	ontainment and cleaning up		
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate		
	method.		
6.4. Reference to other sections	3		
eation 7: Handling and storag	•		
ection 7: Handling and storag	e		
7.1. Precautions for safe handli	ng		
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 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. Recommended		
	storage temp 2-8 °C.		
Suitable packaging:	Must only be kept in original packaging.		
7.3. Specific end use(s)			
	No deta available		
Specific end use(s):			

Section 8: Exposure controls/personal protection

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#### 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<br/>protective device with particle filter.Hand protection:Protective gloves.Eye protection:Safety glasses. Ensure eye bath is to hand.

#### Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Skin protection: Protective clothing.

State:	Solid		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Viscosity:	No data available.		
Boiling point/range°C:	No data available.	Melting point/range°C:	60-61
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	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.

# 10.3. Possibility of hazardous reactions

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.

#### 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). Sulphur oxides (SOx)

# Section 11: Toxicological information

#### 11.1. Information on toxicological effects

#### Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM 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 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 product is not identified as a PBT/vPvB 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**

Transport class: This product does not require a classification for transport.

## 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 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:	H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled	
	H315: Causes skin irritation.	
	H319: Causes serious eye irritation.	
	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	
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# ISOTHIAZOLE-3-CARBONITRILE

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.

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