

1,3-THIAZOLE-4-CARBOXYLIC ACID

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Compilation date: 31/01/2007

Revision date: 18/07/2017

Revision No: 3

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

# 1.1. Product identifier

Product name: 1,3-THIAZOLE-4-CARBOXYLIC ACID

**CAS number:** 3973-08-8

Product code: OR7886

Synonyms: THIAZOLE-4-CARBOXYLIC ACID

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: Eye Irrit. 2: H319; STOT SE 3: H335; Skin Sens. 1: H317; Skin Irrit. 2: H315
 Most important adverse effects: Causes serious eye irritation. May cause respiratory irritation. May cause an allergic skin reaction.

#### 2.2. Label elements

Label elements:

Hazard statements: H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H317: May cause an allergic skin reaction.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



### 1,3-THIAZOLE-4-CARBOXYLIC ACID

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: 1,3-THIAZOLE-4-CARBOXYLIC ACID

CAS number: 3973-08-8

# 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

# 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 the substance or mixture

Exposure hazards: In combustion emits toxic fumes. 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.

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### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective 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

Environmental precautions: Do not discharge into drains or rivers.

### 6.3. Methods and material for containment 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

# Section 7: Handling and storage

#### 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 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)

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.		

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#### Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties				
State:	Solid			
Colour:	Off-white			
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:	196-199	
Flammability limits %: lower:	No data available.	upper:	No data available.	
Flash point℃:	No data available.	Part.coeff. n-octanol/water:	log Pow: 0.498	
Autoflammability°C:	No data available.	Vapour pressure:	No data available.	
Relative density:	No data available.	pH:	No data available.	
VOC g/l:	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.

# 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

### 1,3-THIAZOLE-4-CARBOXYLIC ACID

#### **Relevant hazards for product:**

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	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.

#### 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.

#### 1,3-THIAZOLE-4-CARBOXYLIC ACID

## 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:	H317: May cause an allergic skin reaction.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
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