

ETHYL 2-CHLORO-1,3-THIAZOLE-4-CARBOXYLATE

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Compilation date: 24/06/2011

Revision date: 11/07/2017

Revision No: 3

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

### 1.1. Product identifier

Product name: ETHYL 2-CHLORO-1,3-THIAZOLE-4-CARBOXYLATE

**CAS number:** 41731-52-6 **Product code:** OR41053

# 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: Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Acute Tox. 4:

H312; Acute Tox. 4: H332

Most important adverse effects: Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes

serious eye irritation. Harmful if inhaled. May cause respiratory irritation.

#### 2.2. Label elements

### Label elements:

Hazard statements: H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

Signal words: Warning

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Hazard pictograms: GHS07: Exclamation mark



Precautionary statements: P261: Avoid breathing dust.

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

P271: Use only outdoors or in a well-ventilated area.

### 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: ETHYL 2-CHLORO-1,3-THIAZOLE-4-CARBOXYLATE

CAS number: 41731-52-6

#### Section 4: First aid measures

### 4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

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 mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness

or mental confusion may occur.

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

# Section 5: Fire-fighting measures

### 5.1. Extinguishing media

Extinguishing media: 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). Hydrogen bromide (HBr).

# 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. Mark out the contaminated area with signs and prevent access to

unauthorised personnel. Do not create dust. If outside keep bystanders upwind and

away from danger point.

# 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: 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. Avoid direct contact with the substance.

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 ℃.

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.

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**Skin protection:** Protective clothing.

# Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

State: Solid

Colour: Pale yellow

Odour: No data available

**Evaporation rate:** No Data Available **Solubility in water:** No Data Available

Also soluble in: No Data Available

Viscosity: Not available

Boiling point/range ℃: not known Melting point/range ℃: not known

Flash point ℃: not known Part.coeff. n-octanol/water: not known

Vapour pressure: not known Relative density: not known

pH: not known VOC g/l: not known

### 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.

# 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes. Hydrogen bromide gas (HBr).

# Section 11: Toxicological information

### 11.1. Information on toxicological effects

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### 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 mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness

or mental confusion may occur.

# 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.

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# **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

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful 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

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.