

ISOTHIAZOLE-3-CARBONITRILE

Page: 1 Compilation date: 20/04/2011

Revision date: 15/06/2022

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
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. | |
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| | 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 | |
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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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