
SECTION 1: Identification of substance/mixture and of the company/undertaking**1.1 Product Identifier**

Substance Name: 3-Hydroxytriazolo[4,5-b]pyridine

Product Identification number: Z35466

EC #: -

Reach Registration Number: -

CAS # [39968-33-7]

1.2 Relevant identified uses of the substance or mixture and uses advised against:

SU24 Scientific research and development

1.3 Details of Supplier of the safety data sheet:

Manufacturer/Supplier: Manchester Organics Limited
The Heath Business and Technical Park,
Runcorn,
Cheshire,
WA7 4QX

Telephone Number: +44 (0) 1928 710 200

Fax Number: +44 (0) 1928 710 225

Email: info@manchesterorganics.com

1.4 Emergency Telephone Number:

Emergency Phone #: +44 (0) 1928 710 200

SECTION 2: Hazard Identification**2.1 Classification of substance or mixture:****Classification according to Regulation (EC) No 1272/2008 [CLP]**

Explosives (Division 1.4), H204

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), H335

2.2 Label elements**Hazard Pictograms:****Signal Word: Warning****Hazard statements:**

H204 Fire or projection hazard

H315 causes skin irritation

H319 causes serious eye irritation

H335 may cause respiratory irritation

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P250 Do not subject to grinding/shock/friction

P260 Do not breathe dust/fumes/gas/mist/vapours/spray

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair). Remove /Take off immediately all contaminated clothing. Rinse SKIN with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P370+P380+P372+P373 In case of fire: Evacuate area. Explosion risk in case of fire. DO NOT fight fire when fire reaches explosives.

2.3 Other Hazards

None

SECTION 3: Composition/information on ingredients**3.1 Substances**

Synonyms: 3-Hydroxytriazolo[4,5-b]pyridine

CAS#: [39968-33-7]

EC#: -

Reach #: -

Formula: C₅ H₄ N₄ O

Molecular Weight: 136.11146

SECTION 4: First Aid Measures**4.1 Description of first aid measures:****4.1.1 General Advice**

Remove contaminated clothing immediately. Seek medical advice and show this safety data sheet to the doctor in attendance.

4.1.2 Following Inhalation

If breathed in, move person into fresh air, rest and keep warm. If not breathing give artificial respiration. In severe cases or if symptoms persist, contact a physician.

4.1.3 Following Skin Contact

Remove contaminated clothing and shoes. Wash immediately with soap and water. In case on skin irritation contact a physician

4.1.4 Following Eye Contact

After contact with the eyes, rinse with water with the eyelids open for 15 minutes then contact a physician

4.1.5 Following Ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects of are described in the labelling (section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Fire and explosion

5.1 Extinguishing Media:

Suitable extinguishing media: Carbon Dioxide or dry powder

Unsuitable extinguishing media: Water

5.2 Special hazards arising from the substance or mixture:

Explosion risk in case of fire. DO NOT fight fire when fire reaches explosive. Hazardous combustion products: Carbon monoxide, carbon dioxide, oxides of nitrogen

5.3 Advice for firefighters:

In case of fire: Evacuate area. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. In case of fire in the surroundings: Keep containers cool by spraying with water. When extinguishing fire, be sure to wear personal protective equipment

5.4 Further Information

No data available

SECTION 6: Accidental release measures

6.1.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For Personal protection see section 8

6.2 Environmental precautions

Make sure spills can be contained. Prevent further leakage or spillage if safe to do so. Do not let product enter drains or soil.

6.3 Methods and materials for containment and cleaning up

Contain spillage using inert absorbent material, and then collect by sweep up and shovel. Place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: STORAGE AND HANDLING

7.1 Precautions for safe handling

This material should be handled only by, or under the close supervision of, properly qualified people. Open container and use product in an efficient fume hood. Do not eat or smoke while handling this product. For precautions see section

2. Avoid shock and friction.

7.2 Conditions for safe storage, including any incompatibilities

Storage area should be cool, dry and free from sources of heat. Store in a closed vessel or equivalent system. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Incompatible with strong oxidising agents and bases. Avoid heat, flames and sparks.

7.3 Specific end uses:

No data available.

SECTION 8: Exposure controls/Personal Protection

8.1 Control Parameters

Components with workplace control parameters:

Contains no substances with occupational exposure limit values.

8.2 Exposure Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of work day

Personal Protective Equipment

Eye/Face Protection

Face shield and/or safety glasses. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching other glove's outer surface) and dispose of contaminated glove in accordance with applicable laws and good laboratory practice. The type of glove must be selected according to the concentration and amount of the dangerous substance at the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Body Protection

Complete body suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

If technical exhaust or ventilation methods are not possible or insufficient than respiratory protection must be worn

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) Appearance: Solid
- b) Odour: No data
- c) Odour Threshold: No data
- d) pH: No data
- e) Melting Point: No data
- f) Boiling Point: No data
- g) Flash Point: No data
- h) Evaporation rate: No data
- i) Flammability (solid,gas): No data
- j) Upper/lower flammability explosive limits: No data
- k) Vapour Pressure: No data
- l) Vapour Density: No data
- m) Relative Density: No data
- n) Water Solubility: No data
- o) Partition Coefficient n-octanol/water: No data
- p) Auto-ignition temperature: No data
- q) Decomposition temperature: No data
- r) Viscosity: No data
- s) Explosive properties: No data
- t) Oxidizing properties: No data

9.2 Other information:

none

SECTION 10: Stability and Reactivity**10.1 Reactivity**

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

May explosively decompose on heating, shock, friction, etc

10.4 Conditions to avoid

Heat, flames and sparks. Shock, friction

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available.

In the event of fire see section 5

SECTION 11: Toxicological information

The toxicological properties of this product have not been investigated.

SECTION 12: Ecological information**12.1 Toxicity**

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13: Disposal**13.1 Waste treatment methods**

Arrange disposal as special waste, by licensed disposal company, in consultation with local Waste Disposal Authority, in accordance with national and regional regulations.

SECTION 14: Transport Information**14.1 UN number**

ADR/RID: 0481 IMDG: 0481 IATA: 0481

14.2 UN proper shipping name

ADR/RID: Substances, explosive, N.O.S. (3-Hydroxytriazolo[4,5-b]pyridine)

IMDG: Substances, explosive, N.O.S. (3-Hydroxytriazolo[4,5-b]pyridine)

IATA: Substances, explosive, N.O.S. (3-Hydroxytriazolo[4,5-b]pyridine)

14.3 Transport hazard class(es)

ADR/RID: 1.4S IMDG: 1.4S IATA: 1.4S

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

15. Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

no data available

15.2 Chemical Safety Assessment

no data available

SECTION 16: ADDITIONAL INFORMATION

The information presented in this document is, to the best of our knowledge, correct at the time of publication.

Manchester Organics Ltd cannot accept liability for any loss, injury or damage which may result from its use. The

information given in this document is intended only as a guidance for the safe handling, storage and use of the material.

All chemicals should be handled within a controlled environment by competent individuals.

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