Matrix Scientific

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SAFETY DATA SHEET

Transportation Emergency: 3E Co. (5025) 800-451-8346

1. Product Identification

Name Thiophene-2-carbonitrile

Catalog Number 004625

CAS Registry Number [1003-31-2]

Company Matrix Scientific

Physical Address 131 Pontiac Business Center Drive

Elgin, SC 29045

USA

Telephone/Fax (803)788-9494/(803)788-9419

2. Hazard Identification

Hazardous Ingredients Thiophene-2-carbonitrile

GHS label elements, including precautionary statements

Pictogram

H335



Signal word DANGER

Hazard statement(s)

H226 Flammable liquid and vapour
H302 Harmful if swallowed
H312 Harmful in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled

Precautionary statement(s)
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.

May cause respiratory irritation

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do - continue rinsing.

P411+235 Store at temperatures not exceeding 8°C . Keep cool.

3. Composition, Information or Ingredients

4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with

clean, running water for at least 15 minutes while keeping eyes open. Cool

water may be used. Seek medical attention.

Skin Contact: After contact with skin, wash with generous quantities of running water.

Gently and thoroughly wash affected area with running water and nonabrasive soap. Cool water may be used. Cover the affected area with emollient. Seek medical attention. Wash any contaminated clothing prior to

reusing.

Inhalation: Remove the victim from the source of exposure to fresh, uncontaminated

air. If victim's breathing is difficult, administer oxygen. Seek medical

attention.

Ingestion: Do NOT induce vomiting. Give water to victim to drink. Seek medical

attention.

5. Fire-Fighting Measures

Extinguishing media:

Carbon dioxide, dry chemical powder, alcohol or polymer foam.

Special fire fighting procedures:

Wear self-contained breathing apparatus and protective clothing to prevent

contact with skin and eyes.

Unusual fire and explosion hazards/ decomposition of

product: Emits toxic fumes under fire conditions.

6. Accidental Release Measures

Steps to be taken if material is spilled or otherwise released into the environment - Wear Appropriate respirator, impervious boots and heavy rubber (or otherwise impervious) gloves. Scoop up solid material or absorb liquid material and place into appropriate container. Ventilate area and wash affected spill area after pickup is complete. Wash skin immediately with plenty of water. Place solid or absorbed material into containers and close for disposal.

7. Handling and Storage

Refrigerate

Avoid prolonged exposure.

Use caution when handling.

Exposure to any chemical should be limited.

Do not breath dust or vapor.

Have safety shower and eye wash available.

Do not get in eyes, on skin or on clothing.

Keep container tightly closed.

Store in a cool, dry, well-ventilated place.

Ensure adequate ventilation during use.

Use only in a chemical fume hood.

To the best of our knowledge, the health hazards of this product have not been fully investigated.

This product is provided solely for the purpose of research and development.

8. Exposure Controls and Personal Protection

Wear Protective safety goggles.

Wear chemical-resistant gloves.

Wear protective clothing and chemical resistant boots.

Ensure ventilation during use.

After contact with skin, wash immediately.

9. Physical and Chemical Properties

Appearance: liquid

Molecular Formula: C5H3NS
Molecular Weight: 109.15
Boiling point (C): 191-193°
Density (g/ml): 1.172
Index of refraction: 1.5630
Flash point (C): 53°

10. Stability and Reactivity

Incompatibilities: Strong oxidizing agents

Strong acids and bases

Hazard Decomposition Products

Carbon carbon monoxide

carbon dioxide

Nitrogen oxides of nitrogen **Sulfur** oxides of sulfur

11. Toxicological Information

Acute effects:

Irritant

May be harmful by ingestion and inhalation.

Material is irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the toxicological properties of this product have not been fully investigated or determined.

12. Ecological Information

Mobility: Data not known

Persistence and

degradability:No data available

Cumulative potential: No data available **Other adverse effects:** No data available

13. Disposal Considerations

Absent other actions demanded by federal or local regulations - Dissolve or mix the material with a combustible solvent and burn in a requlated, chemical incinerator equipped with after burner and scrubber.

Observe all federal, state and local laws.

14. Transport Information

Shipping Name Flammable liquid, n.o.s.

Class / Sub-Class 3 UN Number UN1993 Packing Group III Inhalation Hazard Zone

15. Regulatory Information

Adhere to all Federal, State and local regulations.

16. Other Information

The information contained herein is accurate to the best of our knowledge, but is not meant to be complete and is included only as a guide. The end user is responsible for any damage resulting from handling or from contact with this product.