# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 2-Amino-5-nitrothiazole  

*Sarchem Laboratories, Inc.*  
5012 Industrial Road  
Farmingdale, NJ 07727  

**Emergency Phone No:** 800-255-3924  
**International:** +1-813-248-0585  
**ChemTel Inc**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>EC Number</th>
<th>Molecular Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Amino-5-nitrothiazole</td>
<td>121-66-4</td>
<td>204-490-4</td>
<td>145.14 g/mol</td>
</tr>
</tbody>
</table>

Molecular Formula: C3H3N3O2S

## 3. HAZARDS INFORMATION:

### EMERGENCY OVERVIEW:

**OSHA Hazards**  
Target Organ Effect, Harmful by ingestion., Irritant

**Target Organs**  
Liver

**GHS Label elements, including precautionary statements**

**Hazard statement(s)**
- H302 Harmful if swallowed.  
- H315 Causes skin irritation.  
- H319 Causes serious eye irritation.  
- H335 May cause respiratory irritation.

**Precautionary statement(s)**
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
- P264 Wash skin thoroughly after handling.  
- P270 Do not eat, drink or smoke when using this product.  
- P271 Use only outdoors or in a well-ventilated area.  
- P280 Wear protective gloves/eye protection/face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed. Aldrich - 133507 Page 2 of 6
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

HMIS Classification
Health Hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating
Health Hazard: 2
Flammability: 0
Physical hazards: 0

Potential Health Effects:

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Ingestion Harmful if swallowed.

4. FIRST AID MEASURES:

General Advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

6. Accidental Release Measures

Personal precautions
Use personal protective equipment. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Ensure adequate ventilation.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment.

Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage
Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.

Eye protection
Safety glasses with side-shields conforming to EN166.

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance
Form solid

Safety data
pH no data available
Melting Point 195 - 200 °C (383 - 392 °F) - dec.
Boiling Point no data available.
Flash Point no data available.
Ignition temperature no data available.
Lower exposure limit no data available.
Upper exposure limit no data available.
Water solubility no data available.
10. Stability and Reactivity

**Storage stability**
Stable under recommended storage conditions.

**Conditions to avoid**
No data available.

**Materials to avoid**
Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides.

**Hazardous decomposition products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

11. Toxicological Information

**Acute toxicity**
No data available.

**Skin corrosion/irritation**
No data available.

**Eye damage / irritation**
No data available.

**Skin Sensitisation**
No data available.

**Germ cell mutagenicity**
Laboratory experiments have shown mutagenic effects.

**Carcinogenicity**
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

**Chronic exposure**

<table>
<thead>
<tr>
<th>IARC:</th>
<th>3 - Group 3: Not classifiable as to its carcinogenicity to humans (Fluoranthene)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH:</td>
<td>No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</td>
</tr>
</tbody>
</table>
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure (GHS)
No data available.

Specific target organ toxicity - repeated exposure (GHS)
No data available.

Aspiration hazard
No data available.

Potential Health Effects

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** Harmful if swallowed.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects
no data available

Additional Information
RTECS: XJ2800000

12. Ecological Information

Elimination information (persistence and degradability)
No data available

Toxicity effects
No data available

Further information on ecology
No data available
13. **Disposal Considerations**

**Product**
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**
Dispose of as unused product

14. **Transportation Information**

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods

15. **Regulatory Information**

**OSHA Hazards**
Target Organ Effect, Harmful by ingestion., Irritant

**DSL Status**
This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

<table>
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<tr>
<th>Component</th>
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<td>5-Nitrothiazol-2-ylamine</td>
<td>121-66-4</td>
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**SARA 302 Components**
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**
Acute Health Hazards, Chronic Health Hazard
New Jersey Right to Know Components

<table>
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<tr>
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Pennsylvania Right to Know Components

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California Prop. 65 Components

WARNING! This product contains a chemical known to State of California to cause birth defects or other reproductive harm.

5-Nitrothiazol-2-ylamine 121-66-4

16. OTHER INFORMATION:

Further Information

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