SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : N-Allylthiourea

Product Number : 108804
Brand : Aldrich
CAS-No. : 109-57-9

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

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO  63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word : Danger
Hazard statement(s) : Toxic if swallowed.
Precautionary statement(s) : Wash skin thoroughly after handling.
SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms: Thiosinamine
1-Allyl-2-thiourea

Formula: C₄H₈N₂S
Molecular weight: 116.18 g/mol
CAS-No.: 109-57-9
EC-No.: 203-683-5

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-Allylthiourea</td>
<td>Acute Tox. 3; H301</td>
<td>&lt;= 100 %</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures
No data available

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see 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: Firefighting measures

5.1 Extinguishing media
No data available

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Nitrogen oxides (NOx)
Sulfur oxides
Combustible.

5.3 Advice for firefighters
No data available
5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For personal protection see section 8.

6.2 Environmental precautions
No data available

6.3 Methods and materials for containment and cleaning up
No data available

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
No data available

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
Personal protective equipment

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please
接触CE认证的手套供应商（例如：KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de)。

接触材料：丁腈橡胶

最小层厚度：0.11 mm

穿透时间：480 min

测试材料：KCL 741 Dermatril® L

**控制环境暴露**

防止产品进入排水管。

### 第9节：物理和化学性质

#### 9.1 基本物理和化学性质

<table>
<thead>
<tr>
<th>特性</th>
<th>特性描述</th>
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</thead>
<tbody>
<tr>
<td>外观</td>
<td>形状：晶形  颜色：米色</td>
</tr>
<tr>
<td>气味</td>
<td>不愉快</td>
</tr>
<tr>
<td>气味阈值</td>
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</tr>
<tr>
<td>pH</td>
<td>无数据可用</td>
</tr>
<tr>
<td>熔点/凝固点</td>
<td>熔点/范围：70 - 72 °C (158 - 162 °F) - 文献</td>
</tr>
<tr>
<td>初始沸点和沸程</td>
<td>无数据可用</td>
</tr>
<tr>
<td>闪点</td>
<td>不适用</td>
</tr>
<tr>
<td>蒸发速率</td>
<td>无数据可用</td>
</tr>
<tr>
<td>燃烧性（固体，气体）</td>
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</tr>
<tr>
<td>上限/下限可燃或爆炸极限</td>
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</tr>
<tr>
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<tr>
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<td>相对密度</td>
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<td>水溶性</td>
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<tr>
<td>分配系数: n-癸烷/水</td>
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</tr>
<tr>
<td>自动着火温度</td>
<td>无数据可用</td>
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<tr>
<td>分解温度</td>
<td>无数据可用</td>
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<tr>
<td>粘度</td>
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<tr>
<td>爆炸性质</td>
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<tr>
<td>氧化性质</td>
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</tr>
</tbody>
</table>

#### 9.2 其他安全信息

无数据可用
SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
No data available

10.3 Possibility of hazardous reactions
Violent reactions possible with:
Strong oxidizing agents

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
no information available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 200 mg/kg
Remarks:
(RTECS)
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient 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 on OSHA’s list of regulated carcinogens.
Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information
RTECS: YR8050000

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

SECTION 12: Ecological information

12.1 Toxicity
Toxicity to fish
LC50 - Leuciscus idus melanotus - 3,200 mg/l - 48 h

Toxicity to daphnia and other aquatic invertebrates
LC50 - Daphnia magna (Water flea) - 39 mg/l - 24 h

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
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods
No data available

SECTION 14: Transport information

DOT (US)
UN number: 2811  Class: 6.1  Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (N-Allylthiourea)

Aldrich - 108804
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

**IMDG**
UN number: 2811   Class: 6.1   Packing group: III   EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (N-Allylthiourea)

**IATA**
UN number: 2811   Class: 6.1   Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (N-Allylthiourea)

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**SECTION 15: Regulatory information**

**SARA 302 Components**
This material does not contain any components with a section 302 EHS TPQ.

**SARA 313 Components**
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 Hazard

**Massachusetts Right To Know Components**
No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**
N-Allylthiourea  
CAS-No. 109-57-9  
Revision Date

**New Jersey Right To Know Components**
N-Allylthiourea  
CAS-No. 109-57-9  
Revision Date

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**SECTION 16: Other information**
The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

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