Section 1 - Product and Company Information

Product Name: Muscimol  
Product Number: M1523  
Brand: Sigma Chemical

Company: Sigma-Aldrich  
Street Address: 3500 Spruce Street  
City, State, Zip, Country: SAINT LOUIS, MO 63103 US  
Technical Phone: 314 771 5765  
Fax: 600 326 5982

Emergency Phone: 414 273 3850 Ext. 5906

Section 2 - Composition/Information on Ingredient

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS #</th>
<th>SARA 313</th>
<th>EC no</th>
<th>Annex I Index Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSCIMOL</td>
<td>2763-96-4</td>
<td>Yes</td>
<td>220-430-4</td>
<td></td>
</tr>
</tbody>
</table>

Formula: C4H6N2O2  
Synonyms: Asarin, 5-Aminomethyl-3-hydroxyisoxazole, 5-(Aminomethyl)-3-isoxazol, 5-(Aminomethyl)-3H-isoxazolone, 5-Aminomethyl-3-isoxazole, 3-Hydroxy-5-aminomethylisoxazole, 3-Hydroxy-5-aminomethylisoxazole-asarin, Muscimol, Partisan; RCRA waste number P007

Section 3 - Hazards Identification

Toxic if swallowed.  
Target organ(s): Central nervous system.

HMS Rating  
Health: 3*  
Flammability: 0  
Reactivity: 0

NFPA Rating  
Health: 3  
Flammability: 0  
Reactivity: 0

*Additional chronic hazards present.  
For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A

Extinguishing Media: Suitable  
Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting:  
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard: Emitted toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill: Evacuate area.

Procedure(s) of Personal Protection(s): Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and never spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling:  
User Exposure: Do not breathe dust. Do not get in eyes, on skin, or clothing. Avoid prolonged or repeated exposure.

Storage:  
Suitable:  
Keep tightly closed. Store at 2-8°C

Section 8 - Exposure Controls / PPE

Engineering Controls:  
Safety showers and eye bathe. Use only in a chemical fume hood.

Personal Protective Equipment:  
Respiratory: Government approved respirator.

Hand:  
Chemical resistant gloves.

Eye:  
Chemical safety goggles.

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General Hygiene Measures
Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance
Physical State | Color | Form
--- | --- | ---
Solid | White | Powder

Molecular Weight: 114.1 AMU

pH | N/A

BP/BP Range | N/A

MP/BP Range | N/A

Freezing Point | N/A

Vapor Pressure | N/A

Vapor Density | N/A

Saturated Vapor Conc. | N/A

SG/Density | N/A

Bulk Density | N/A

Odor Threshold | N/A

Volatile% | N/A

VOC Content | N/A

Water Content | N/A

Solvent Content | N/A

Evaporation Rate | N/A

Viscosity | N/A

Partition Coefficient | N/A

Decomposition Temp. | N/A

Flash Point ºC | N/A

Explosion Limits | N/A

Flammability | N/A

Autoignition Temp | N/A

Solubility | N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability
Materials to Avoid
Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides.

Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Route of Exposure
Skin Contact
May cause skin irritation.

Skin Absorption
May be harmful if absorbed through the skin.

Eye Contact
May cause eye irritation.

Inhalation
May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion
Toxic if swallowed.

Target Organ(s) or System(s)
Central nervous system.

Signs and Symptoms of Exposure
Can cause CNS depression. May cause convulsions. Symptoms may be delayed. Exposure can cause: Neurotoxic effects. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: NY332500

Toxicity Data

Oral - Rat: 45 mg/kg (LD50)

Oral - Mouse: 22 mg/kg (LD50)

Intravenecus - Rat: 4500 UG/KG (LD50)

Intravenecus - Mouse: 5820 UG/KG (LD50)

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Contact a licensed professional waste disposal service to dispose of this material.

Disperse or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an effluent scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: Alkaloids, solid, n.o.s. [or] Alkaloid salts, solid, n.o.s. [poisonous]

UN# : 1544

Class : 6.1

Packing Group: Packing Group II

Hazard Label: Toxic substances.

PIH: Not PIH

IATA

Proper Shipping Name: Alkaloids, solid, n.o.s.

IATA UN Number: 1544

Hazard Class: 6.1

Packing Group: II

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Section 15 - Regulatory Information

EU Additional Classification
Symbol of Danger: T
Indication of Danger
Toxic.
Risk Statements
R: 25
Toxic if swallowed.
Safety Statements
S: 22 36/37/39 45
Do not breathe dust. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US Classification and Label Text
Indication of Danger
Highly Toxic (USA) Very Toxic (EU).
Risk Statements
Toxic if swallowed.
Safety Statements
Do not breathe dust. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
US Statements
Target organ(s): Central nervous system.

United States Regulatory Information
SARA Listed: Yes
Notes: This product is subject to SARA section 313 reporting requirements.

TSCA Inventory Item: Yes

Canada Regulatory Information
WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: No
NDSL: Yes

Section 16 - Other Information

Disclaimer
For R&D use only. Not for drug, household or other uses.

Warranty
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.