

Material Safety Data Sheet

Date Printed: 07/13/2004 Date Updated: 04/06/2004 Version 1.40

Section 1 - Product and Company Information

Product Name Product Number Brand

Muscimol M1523 Sigma Chemical

Company Street Address City, State, Zip, Country **Technical Phone:**

Sigma-Aldrich 3050 Spruce Street SAINT LOUIS, MO 63103 US 314 771 5765 800 325 5052

Emergency Phone:

414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313 EC no

Annex I Index Number

MUSCIMOL

2763-96-4

220-430-4

Yes

Formula Synonyms

Agarin, 5-Aminomethyl-3-hydroxyisoxazole, 5-(Aminomethyl)-3-isoxazolol, 5-(Aminomethyl)-3(2H)isoxazolone, 5-Aminomethyl-3-isoxyzole, 3-Hydroxy-5-aminomethylisoxazole, 3-Hydroxy-5aminomethylisoxazole-agarin, Muscimol, Pantherin, RCRA waste number P007

Section 3 - Hazards Identification

Emergency Overview

Highly Toxic (USA) Very Toxic (EU).

Toxic if swallowed.

Target organ(s): Central nervous system.

HMIS 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.

Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eve Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp:

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(s)

Emits 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 Precaution(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 wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

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

Storage

Suitable

Keep tightly closed. Store at 2-8°C

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Use only in a chemical fume hood.

Personal Protective Equipment

Respiratory

Government approved respirator.

Compatible chemical-resistant gloves.

Chemical safety goggles

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General Hygiene Measures

Wash contaminated clothing before reuse. Wash thoroughly after handling.

Form

Powder

Section 9 - Physical/Chemical Properties

Appearance Physical State Solid	Color White	
Molecular Weight:	114.1 AMU	-
рH	N/A	
BP/BP Range	N/A	
MP/MP 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 °F	N/A	
Flash Point °C	N/A	
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Solubility	N/A	

Section 10 - Stability and Reactivity

Stability

Materials to Avoid

N/A = not available

Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides:

Hazardous Polymerization

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.

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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: NY3325000

Toxicity Data

Oral - Rat: 45 mg/kg (LD50)

Intravenous - Rat: 4500 UG/KG (LD50)

Oral - Mouse: 22 mg/kg (LD50)

Intraperitoneal - Mouse: 2500 UG/KG (LD50)

Remarks: Behavioral:Change in motor activity (specific assay).

Behavioral: Ataxia.

Lungs, Thorax, or Respiration: Dyspnea.

Subcutaneous - Mouse: 3800 UG/KG (LD50)

Remarks: Behavioral:Change in motor activity (specific assay).

Behavioral:Ataxia.

Lungs, Thorax, or Respiration: Dyspnea.

Intravenous - Mouse: 5620 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.

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

Section 14 - Transport Information

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

Toxic if swallowed.

S: 22 36/37/39 45 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 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).

Target organ(s): Central nervous system.

United States Regulatory Information

SARA Listed: Yes

Notes: This product is subject to SARA section 313 reporting requirements.

R: 25

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.