



Central Pollution Control Board

Ministry of Environment & Forests, Govt of India, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032

MATERIAL SAFETY DATA SHEETS

409

Muscimol

1. CHEMICAL IDENTITY

Chemical Name : Muscimol

Chemical Classification: Toxic

Trade Name :

Synonyms: 5-(Aminomethyl)-3-isoxazolol, 3-Hydroxy-5-aminomethylisoxazole, Pantherine, Agarine

Formula : C₄H₆N₂O₂

CAS No: 2763-96-4

UN No: 1544

Regulated Identification

Shipping Name :

Hazchem Code : 2X

Codes / Label : Class 6.1, Toxic

Hazardous Waste ID No :

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
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1 Muscimol

2763-96-4

3

2

4

2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C: 70 (0.01 mm Hg) **Physical State:** Solid **Appearance:** Crystals.

Melting Pt °C: 150 deg C; 175 deg C (decompose s) **Vapour Pressure @ 35°C mmHg:** **Odour:**

Vapour Density(Air =1): **Solubility in water at 30°C g/100ml:** Very soluble **Others:**

Specific Gravity (Water =1): **pH :**

3. FIRE / EXPLOSION HAZARD DATA

Flammability : **LEL:** **Flash Point °C in OC:**

TDG Flammability: **UEL:** **Flash Point °C in CC:**

Autoignition Temperature °C :

Explosion sensitivity to impact:

Explosion sensitivity to static Electricity:

Hazardous Combustion Products : When heated to decomposition it emits toxic fumes of nitrogen oxides

Hazardous Polymerization :

Combustible Liquid: **Explosive Material:** **Corrosive Material**

Flammable Material: **Oxidiser :** **Others:**

Pyrophoric Material: **Organic Peroxide :**

4. REACTIVITY DATA

Chemical Stability : Stable under normal temperatures and pressures.

Incompatibility with other material : Acid chlorides, acid anhydrides, strong acids, strong oxidizing agents.

Reactivity :

Hazardous : Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases,

Reaction Products carbon dioxide, nitrogen.

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, Skin and Eyes

Effects of Exposure / Symptoms:

Inhalation : May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. **Ingestion** : May be fatal if swallowed. May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. **Skin** : May cause skin irritation. **Eye** : May cause eye irritation.

Emergency Treatment :

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

LD50 (oral-rat) mg/kg: 17 mg/kg (mouse)

STEL:

LC50 (rat) mg/kg:

Odour Threshold:

Permissible Exposure Limit:

TLV (ACGIH) :

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals	3	0	0	

6. PREVENTIVE MEASURES

Personal Protective Equipment : Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin.

Handling : Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage : Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Precautions :

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media :

Special Procedure :

Unusual Hazards : When heated to decomposition, it emits toxic fumes of nitrogen oxides

EXPOSURE: First Aid Measures:

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Antidotes / Dosages:**SPILLS :**

Steps To Be Taken : Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Provide ventilation.

Waste Disposal Method:**8. ADDITIONAL INFORMATION / REFERENCES****9. MANUFACTURERS / SUPPLIERS DATA****NAME OF FIRM :****Contact person****MAILING ADDRESS :****in Emergency :****TELEPHONE / TELEX NOS :****Local Bodies involved :****TELEGRAPHIC ADDRESS :****Standard Packing :****OTHERS :****Trem Card Details / Ref :****10. DISCLAIMER**

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