

Material Safety Data Sheet



1. Product and Company Identification

Product Name Imidazole, SembaChrom™ Grade, 2.5 M Solution
Catalog Number R1002E
Supplier Semba Biosciences, Inc.
505 South Rosa Road, Suite 106A
Madison, Wisconsin 53719
866-634-1114 or 608-441-8009
Fax: 608-441-8329
Emergency Contact Information 866-634-1114 or 608-441-8009

2. Composition/Information on Ingredients

Ingredient	CAS No.	%
Imidazole	288-32-4	17%

3. Hazards Identification

Emergency Overview Caution: Irritant
Potential Acute Health Effects
Inhalation Irritant to respiratory tract.
Ingestion Irritant to mouth, throat and stomach.
Skin Irritant to skin and mucous membranes.
Eyes Irritant to the eyes.
Potential Chronic Health Effects
Carcinogenicity No known significant effects or critical hazards.
Mutagenicity No known significant effects or critical hazards.
Teratogenicity No known significant effects or critical hazards.
Developmental Effects No known significant effects or critical hazards.
Medical Conditions Aggravated by Over-exposure Individuals with pre-existing skin or eye disorders or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Eye Contact In case of contact, remove contact lenses if wearing. Flush eyes with copious amounts of water for at least 15 minutes. Call a physician.
Skin Contact In case of contact, wash skin thoroughly with soap and water. Rinse with copious amounts of water. Remove contaminated clothing and shoes. Call a physician.
Inhalation If inhaled, move person to fresh air. If individual is not breathing, trained personnel should provide artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.
Ingestion If swallowed and victim is conscious, allow victim to drink large quantities of water. Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Get medical attention immediately.

5. Fire-fighting Measures

Suitable Extinguishing Media Use extinguishing agent suitable for the surrounding fire. Acceptable media for this product are CO₂, dry chemical and water spray (fog).

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Special Protective Equipment for Fire-fighters Wear appropriate protective equipment and self-contained breathing apparatus.

6. Accidental Release Measures

**Personal Precautions
Methods for Cleaning Up** Use appropriate personal protective equipment as described in section 8. Contain and collect spill with non-combustible, absorbent material (sand, diatomaceous earth, vermiculite) and dispose of according to federal, state and local regulations.

7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Avoid inhalation and ingestion. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Storage Keep container tightly closed.

8. Exposure Controls/Personal Protection

Engineering Controls Use only with adequate ventilation. If dust, vapors or mists are generated provide local exhaust ventilation or other engineering controls to keep exposure to airborne contaminants below any recommended or statutory limits.

Hygiene Measures Thoroughly wash hands, forearms and face after handling chemical products and before eating, smoking or using the lavatory and at the end of the working period. Appropriate techniques should be used to remove contaminated or potentially contaminated clothing. Wash contaminated clothing before reusing. Check that safety showers and eyewash stations are located near work areas.

**Personal Protective Equipment
Respiratory**

If risk assessment indicates it is necessary, use a NIOSH (US) approved respiratory protective equipment. The selection of respiratory equipment must be based on anticipated exposure levels, product hazards and the safe working limits of the respirator.

**Hands
Eyes**

Compatible chemical-resistant gloves.
Safety glasses, safety goggles. Use a full face shield when splashing of solutions is possible.

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Environmental Exposure Controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

Physical State Liquid

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Color	Clear
Odor	Characteristic
pH	8
Solubility	Soluble

10. Stability and Reactivity

Storage Stability	Stable under recommended storage conditions.
Materials to Avoid	Strong oxidizers.

11. Toxicological Information

Imidazole:

LD50 Oral (Guinea Pig) 760 mg/kg
LD50 Oral (Mouse) 880 mg/kg
LD50 Oral (Rat) 220 mg/kg

12. Ecological Information

Environmental Effects	The ecological effects have not been thoroughly investigated.
Further information	-

13. Disposal Considerations

Product	Observe all federal, state and local environmental regulations.
Contaminated Packaging	Dispose of the packaging in the same manner as unused product. Observe all federal, state and local environmental regulations.

14. Transport Information

DOT	Not controlled.
IATA	Not controlled.
IMDG	Not controlled.

15. Regulatory Information

SARA 302 Components	No products were found.
SARA 313 Components	No products were found
New Jersey Right to Know Components	No products were found.
California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects.

16. Other Information

The information given herein is offered in good faith as accurate, but does not claim to be all inclusive and shall be used only as a guide. All materials may pose unknown hazards and should be used with caution. Users should consider this information supplemental to other information gathered by them and must determine independently the

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completeness and suitability of information from all sources with regard to the correct use, storage and disposal of these materials and the safety of employees, customers and the environment. Semba Biosciences, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for research use only.

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