

Luminol Reagent

Safety Data Sheet

MSDS No. 810, 811, 812

E

Safety Glasses
Gloves
Dust Respirator



Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Luminol
Chemical Formula: N/A (Chemical mixture)
CAS Number: 521-31-3
Manufacturer: DfS Doje's Forensic Supplies PO Box 500 Ocoee, FL 34761
Emergency Telephone: 800-535-5035 407-880-8149



Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number
5-Amino-2,3-Dihydro-1,4-Phthalazinedione	521-31-3
Sodium Carbonate	497-19-8
Sodium Perborate	10486-00-7



Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
5-Amino-2,3-Dihydro-1,4-Phthalazinedione	N/A		N/A		N/A		N/A
Sodium Carbonate	N/A		N/A		N/A		N/A
Sodium Perborate	N/A		N/A		N/A		N/A

Section 3 - Hazards Identification

KEY WORD: IRRITANT

Potential Acute Health Effects: Very hazardous is case of eye contact (irritant), of ingestion. Hazardous in case of skin contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects: Very hazardous is case of eye contact (irritant), of ingestion. Hazardous in case of skin contact (irritant), of inhalation.

Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.

HMIS	
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Section 4 - First Aid Measures

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases, and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Ingestion: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Section 5 - Fire-Fighting Measures

Flammability of Product: May be combustible at high temperature.

Extinguishing Media: Small Fire: dry chemical powder. Large Fire: water spray, fog, or foam. Do not use water jet.

Hazardous Combustion Products: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂).

Section 6 - Accidental Release Measures

Small Spills: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface.

Large Spills: Use shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Disposal: Follow all Federal, State, and Local regulations for disposal.

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Section 7 - Handling and Storage

Handling Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage Requirements: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Regulatory Requirements: Follow all Federal, State, and Local regulations.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9 - Physical and Chemical Properties

Physical State:	Solid.	Water Solubility:	Soluble in cold water, methanol.
Appearance:	White to yellowish crystals solid.	Melting Point:	319°C (606.2°F)
Odor:	Not available.	Molecular Weight:	177.16 g/mole

Section 10 - Stability and Reactivity

Stability: This product is stable.
Polymerization: No.
Corrosivity: Non-corrosive in presence of glass.
Incompatibilities: Not available.

Section 11 - Toxicological Information

Routes of Entry: Eye contact. Ingestion.
Toxicity to Animals: LD₅₀: Not available. LC₅₀: Not available.
Chronic Effects on Humans: Not available.
Other Toxic Effects on Humans: Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant).

Section 12 - Ecological Information

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Section 13 - Disposal Considerations

Disposal: Consult your local and regional authorities.
Disposal Regulatory Requirements: Observe all Federal, State, and Local environmental regulations.

Section 14 - Transport Information

DOT Transportation Data: (49 CFR 172.101): Not a DOT controlled material.

Section 15 - Regulatory Information

Federal and State Regulations:

Section 16 - Other Information

DISCLAIMER:

The above information is believed to be correct as of the effective date, but does not purport to be all inclusive and shall only be used as a guide. This information is provided without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with Federal, State and Local laws and regulations. DfS, Doje's Forensic Supplies, Incorporated shall not be held liable for any damage resulting from handling or from contact with the above

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