



MATERIAL SAFETY DATA SHEET

Section 1 – PRODUCT AND SAFETY SUPPLIER INFORMATION

Product Name: Lightning-Luminol, Part A
Common Name: Blood Detection Solution
Supplier: Lightning Powder Company, Inc.
13386 International Parkway, Jacksonville, FL 32218
Emergency Telephone: CHEM-TEL, INC. 1-800-255-3924 or 813-248-0585 (call collect)
Date Prepared: February 28, 2003

Section 2 – HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS#</u>	<u>Percent</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>
Sodium Carbonate	497-19-8	4.757	Undetermined	Undetermined
3-Aminophthalhydra- zide	521-31-3	0.095	Undetermined	Undetermined

Section 3 – PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odor: Pale, clear liquid with negligible odor.
Specific Gravity: 1.0743 Solubility in Water: Complete
Boiling Point: 100 deg. C Melting Point: 0 deg. C
Vapor Density: As water Vapor Pressure (mmHg): As water
Evaporation Rate: As water Percent Volatile: 95.148

Section 4 – FIRE AND EXPLOSION DATA

Flash Point: n/a UEL: n/a LEL: n/a
Extinguishing Media: Appropriate for surrounding fire, materials, and conditions.
Firefighting Procedures: Wear SCBA. Emits toxic fumes under fire conditions.
Unusual Fire and Explosion Hazards: None known.

Section 5 – REACTIVITY DATA

Stability: Yes Hazardous Polymerization: No
Incompatibilities: Strong acids.
Hazardous Decomposition Products: Carbon oxides.



Section 6 – HEALTH HAZARD INFORMATION

Health Hazards: May cause irritation to eyes, skin, mucous membranes, and respiratory tract. Ingestion of large doses may cause nausea, vomiting, diarrhea, headache, drowsiness, rash, low blood pressure, low body temperature, renal injury, cyanosis, coma, and death.

Routes of Entry and First-Aid Procedures:

Eyes: Rinse with water for at least 15 minutes while lifting the eyelids. Get immediate medical attention.

Inhalation: Remove subject to fresh air. If not breathing, give artificial respiration. If breathing, give oxygen.

Skin: Wash with copious amounts of soap and water.

Ingestion: Wash out mouth with water. Call a physician immediately.

Signs and Symptoms of Exposure: Pain or redness of eyes. Prolonged absorption causes weight loss, vomiting, diarrhea, skin rash, convulsions, and anemia.

Medical Conditions Aggravated by Exposure: Pre-existing skin or eye problems, or impaired liver, kidney, or respiratory function.

Section 7 – EXPOSURE CONTROLS

Respirator Protection: NIOSH approved dust/mist respirator.

Ventilation: Mechanical as needed.

Protective Gloves: Chemical resistant.

Eye Protection: Chemical

safety goggles.

Other Protective Equipment: Eye wash station, safety shower.

Work and Hygienic Practices: Avoid personal contact. Follow good laboratory practice.

Section 8 – SPILL OR LEAK PROCEDURES

Steps to be taken if material is spilled or released: Take up with inert material. Wash spill area with water.

Waste Disposal Method: Incinerate in accordance with all regulations.

Section 9 – PRECAUTIONS FOR SAFE HANDLING AND USE

Special Precautions: Avoid prolonged or repeated exposure.

Storage Method: Store in closed containers in a cool, dry, well-ventilated, location.



Section 10 – TOXICOLOGICAL DATA

Carcinogenicity:

NPT: No

OSHA: No

IARC: No

Acute Inhalation LC50: 2300 mg/m³ - 2 hours (rat)

Acute Dermal LD50: n/a

Acute Oral LD50: 4090 mg/kg (rat)

Section 11 – ECOLOGICAL DATA

Data not yet available.

Section 12 – TRANSPORTATION IDENTIFICATION

Proper Shipping Name: Not regulated

Identification Number: n/a

Hazard Class: n/a

Packing Group: n/a