SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Luminol

Flinn Scientific, Inc.  P.O. Box 219  Batavia, IL  60510  (800) 452-1261
CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Luminol
Synonyms: 5-amino-2,3-dihydro-1,4-phthalazinedione & 3-aminophthalhydrazide
CAS#:  521-31-3

SECTION 3 — HAZARDS IDENTIFICATION

Yellow odorless powder.
Body tissue irritant. Avoid body tissue contact and inhalation of dust.

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.
Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.
Eye: Immediately flush with fresh water for at least 15 minutes.
External: Wash continuously with fresh water for at least 15 minutes.
Internal: Give large quantities of water. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.
When heated to decomposition, emits toxic fumes of NOx under fire conditions.
Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and
SCBA with full facepiece operated in positive pressure mode.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and
wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines, and amides.
Store in a cool, dry place.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant
apron.
**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Yellow odorless powder.  
Solubility: Soluble in alcohol. Slightly soluble in water.  
Formula: C₈H₇N₃O₂  
Formula Weight: 177.17  
Melting Point: 280 °C  

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers, strong acids, strong bases, and strong reducers.  
Shelf life: Poor.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Irritant.  
Chronic effects: N.A.  
Target organs: N.A.  
ORL-RAT LD₅₀: N.A.  
IHL-RAT LC₅₀: N.A.  
SKN-RBT LD₅₀: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

**SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

**SECTION 13 — DISPOSAL CONSIDERATIONS**

Please consult with state and local regulations.  
Flinn Suggested Disposal Method #5 is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping Name: Not regulated  
Hazard Class: N/A  
UN Number: N/A  
N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (208-309-4).

**SECTION 16 — OTHER INFORMATION**

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.