Luminol

Section 1

CAROLINA®

Product Description

Product Name:	Luminol
Recommended Use:	Science education applications
Synonyms:	3-Aminophthalhydrazide, o-Aminophthaloyl hydrazide, o-Aminophthalyl hydrazide, 3-Aminophthalic
	hydrazide, 5-Amino-2,3-dihydro-1,4-phthalazinedione
Distributor:	Carolina Biological Supply Company
	2700 York Road, Burlington, NC 27215
	1-800-227-1150
Chemical Information:	800-227-1150 (8am-5pm (ET) M-F)
Chemtrec:	800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Systemic Toxicity (STOT) -Single Exposure Category 3

Section 3	Composition / Information on Ingredients					
<u>Chemical Name</u> Luminol			<u>CAS #</u> 521-31-3	<u>%</u> 100		
Section 4		First Aid	Measures			
Emergency and First A	Aid Procedures					
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.					
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy					
	to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.					
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.					
	Take off contaminated clothing and wash before reuse.					
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.					
Section 5		Firefighting	Procedures			
Extinguishing Media:		Use dry chemical, CO2 or app	opriate foam			
Fire Fighting Methods and Protection:		Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.				
Fire and/or Explosion Hazards:		Fire or excessive heat may produce hazardous decomposition products.				
Hazardous Combustion Products:		Carbon dioxide, Carbon monoxide				

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Contain the discharged material.

Section 7

Handling and Storage

Handling:	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well- ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eves. Do not breathe dust.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep locked up and out of the
Storage Code:	reach of children. Store at controlled room temperature. Green - general chemical storage

Section 8

Protection Information

	ACGIH		OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	(TWA)	(STEL)	
Luminol	N/A	N/A	N/A	N/A	
Control Parameters					
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.				
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.				
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.				
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.				
Gloves:	No information availabl	е			

Section 9

Physical Data

Formula: C8H7N3O2				
Molecular Weight: 177.17				
Appearance: Pale yellow Powder				
Odor: No data available				
Odor Threshold: No data available				
pH: No data available				
Melting Point: 331 C				
Boiling Point: No data available				
Flash Point: No data available				
Flammable Limits in Air: No data available				

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: Slightly Soluble Log Pow (calculated): 0.74 (est) Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Polymerization:

Not generally reactive under normal conditions. Stable under normal conditions. None known. Strong acids, Strong alkalies, Strong oxidizing agents, Strong reducing agents Will not occur

Section 11

Toxicity Data

Routes of Entry

Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Delayed Effects:	No data available No data available					
Acute Toxicity: Chemical Name Luminol		CAS Number 521-31-3	Oral LD Not determin			Inhalation LC50 lot determined
Carcinogenicity: Chemical Name No data available		CAS Number 521-31-3	IARC Not listed	N Not listed	ITP d N	OSHA lot listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. No data available					
Chronic:	No data available	-		-		
Section 12			cological I	Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	This material is not expected to be harmful to the ecology. This material is expected to have moderate mobility in soil. It absorbs to most soil types. No data No data No data S: No data					
Chemical Name Luminol		CAS Number 521-31-3	Eco Toxicity Not available			
Section 13	Disposal Information					
Disposal Methods:	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.					
Waste Disposal Code						
Section 14	_	Irah	sport Infor	mation		
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:Not regulated for transport by US DOT.Not regulated for air transport by IATA.						
Section 15		Regulatory Information				
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Numbe	§ 313 Nam r	ne § 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Luminol	521-31-	3 No	No	No	No	No
California Prop 65:			No California P	roposition 65 ingr	edients	
Section 16					Additi Inform	

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health