

World Precision Instruments, Inc.
Material Safety Data Sheet
Version Date: 03/30/2007

Section 1 - Product and Company Information

Product Name	1.2mM Luminol
Product Number:	Bottle 1 of PEROXILUMINOL
Brand:	WPI Inc.
Company:	WPI Inc.
Address:	175 Sarasota Center Blvd Sarasota, FL 34240
Technical Phone:	941-371-1003
Fax:	941-377-5428
Emergency Phone:	941-371-1003

Section 2 - Composition/Information on Ingredients

Ingredient Name	CAS #	Percent	SARA 313
Water	7732-18-5	>99.2%	No
3-AMINOPHTHALHYDRAZIDE, SODIUM SALT HEMIHYDRATE	20666-12-0	<0.1%	No
*		<0.8%	No

Section 3 - Hazards Identification

EMERGENCY OVERVIEW Caution, avoid ocular, dermal and oral exposure.

HMIS RATING

Health 2
Flammability 0
Reactivity 0

NFPA RATING

Health 2
Flammability 0
Reactivity 0

* See Section 16 at end of document

Section 4 - First Aid Measures

ORAL EXPOSURE	If swallowed, wash out mouth with water provided person is conscious. Call a physician
INHALATION EXPOSURE	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
DERMAL EXPOSURE	In case of contact, immediately wash skin with soap and copious amounts of water
EYE EXPOSURE	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

FLASH POINT	N/A
AUTOIGNITION TEMPERATURE	N/A
FLAMMABILITY	N/A
EXTINGUISHING MEDIA	Suitable - Water spray, CO ₂ , dry chemical powder or appropriate foam
FIREFIGHTING	
Protective Equipment	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s)	Emits toxic fumes under fire conditions

Section 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL	Isolate area
PROCEDURE(S) OF PERSONAL PRECAUTION(S)	Exercise appropriate precautions to minimize direct contact with skin or eyes.
METHODS FOR CLEANING UP	Absorb on paper towel and dispose of in a closed container. Wash spill site after material pickup is complete.

* See Section 16 at end of document

Section 7 - Handling and Storage

HANDLING

User	Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.
Exposure	

STORAGE

Suitable	Keep tightly closed. Store at 2-8°C.
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Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS	Safety shower and eye bath. Mechanical exhaust required.
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PERSONAL PROTECTIVE EQUIPMENT

Respiratory	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required.
Hand	Protective gloves.
Eye	Chemical safety goggles.

GENERAL HYGIENE MEASURES	Wash thoroughly after handling. Wash contaminated clothing before reuse.
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Section 9 - Physical/Chemical Properties

Appearance: Physical state - liquid

Property	Value	At Temperature or Pressure
pH	9.2	
BP/BP Range	N/A	
MP/MP Range	N/A	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	

* See Section 16 at end of document

Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Surface Tension	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

N/A = not available

<p>Section 10 - Stability and Reactivity</p>

STABILITY

Materials to Avoid	Strong oxidizing agents, strong acids, strong bases, strong reducing agents
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HAZARDOUS	Will not decompose to hazardous
DECOMPOSITION PRODUCTS	products in solution.

* See Section 16 at end of document

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

Toxicity reported in humans	Ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps, and erythematous lesions on the skin and mucous membranes.
Other Symptoms Include	Circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma. Death has been reported to occur in infants from less than 5 grams and in adults from 5 to 20 grams.

OTHER NOTES	Amount present in entire solution less than 0.1 grams. This may not be enough to cause most of the conditions described.
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Section 12 - Ecological Information

No data Available

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Dissolve ore mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

* See Section 16 at end of document

Section 14 - Transport Information

DOT

Proper Shipping Name	None
Non-Hazardous for Transport	This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport	Non-hazardous for air transport
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Section 15 - Regulatory Information
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EU ADDITIONAL CLASSIFICATION

Symbol of Danger	Xi
Indication of Danger	Irritant
R	36/37/38
Risk Statements	Irritating to eyes, respiratory system and skin.
S	24-36
Safety Statements	Avoid contact with skin and eyes.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger	Irritant
Risk Statements	Irritating to eyes, respiratory system and skin.
Safety Statements	Caution - Avoid contact and inhalation

UNITED STATES REGULATORY INFORMATION

SARA LISTED	No
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CANADA REGULATORY INFORMATION

WHMIS Classification	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR
DSL	No
NDSL	No

* See Section 16 at end of document

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

* OSHA Compliance

WPI Inc. withholds the right to limit disclosure of concentrations and/or ingredients within the domain of "trade secrets" described in Hazard Communication - 1910.1200 (Standards - 29 CFR). WPI Inc. will also comply to all situations requiring the release of sensitive information stated in those regulations such as a case of emergency.

WARRANTY

The staff of our company believes all information to be correct. Allow this document to be used as a guideline for usage of the product, but WPI Inc. does not consider this document an all inclusive document. Information in this document is publicly available information obtained from credible sources, vendors and/or from WPI Inc. directly. This information is intended only for safety purposes and does not serve as a guarantee for the absolute properties of this product. WPI Inc. is not liable for any damages or injury resulting from contact with or handling of the above product. Refer to terms and conditions of sale for any questions.

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* See Section 16 at end of document