

World Precision Instruments, Inc.
Material Safety Data Sheet
Version Date: 07/13/07

Section 1 - Product and Company Information	
Product Name	Enhancer
Product Number:	Bottle 3 of SUPERLUMINOL
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

Substance Name	CAS #	SARA 313
Enhancer	*	NO

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Toxic (USA) Harmful (EU).

Harmful by inhalation, in contact with skin and if swallowed.

HMIS RATING

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

NFPA RATING

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

For additional information on toxicity, please refer to Section 11.

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 not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

FLASH POINT

N/A

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, 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
Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

Mechanical exhaust required. Safety shower and eye bath.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand:

Compatible chemical-resistant gloves.

Eye:

Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

EXPOSURE LIMITS, RTECS

Country	Source	Type	Value
USA	NIOSH	Ceiling	co0.05 MG/M3/15M 0.05 MG/M3/15M

Section 9 - Physical/Chemical Properties

Appearance	Physical State	Solid
Property	Value	At Temperature or Pressure
Molecular Weight	183.91 AMU	
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	850.0 - 866.0 °C	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor	N/A	
Conc.		
SG/Density	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition	N/A	
Coefficient		
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		

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Nature of decomposition products not known.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: Harmful if absorbed through skin.

Eye Contact: May cause eye irritation.

Inhalation: Harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

Can cause metallic taste and a greenish discoloration of the tongue. Exposure can cause coughing, wheezing, respiratory distress, and diarrhea. Gastrointestinal disturbances.

Tremors. Headache.

TOXICITY DATA

Oral: Rat

330 mg/kg

LD50

Remarks:

Gastrointestinal: Hypermotility, diarrhea.

Blood: Hemorrhage

Intraperitoneal: Mouse

36300 UG/KG

LD50

CHRONIC EXPOSURE - TERATOGEN

Species: Mouse

Dose: 300 MG/KG

Route of Application: Oral

Exposure Time: (6-15D PREG)

Result:

Specific Developmental Abnormalities: Musculoskeletal system.

CHRONIC EXPOSURE - MUTAGEN

Species: Human

Dose: 10 UMOL/L

Cell Type: lymphocyte

Mutation test: Micronucleus test

Species: Human

Dose: 20 UMOL/L

Cell Type: lymphocyte

Mutation test: Cytogenetic analysis

Species: Human

Dose: 80 UMOL/L

Cell Type: lymphocyte

Mutation test: Sister chromatid exchange

Species: Human

Dose: 5 UMOL/L

Cell Type: lymphocyte

Mutation test: SLN

Species: Mouse

Route: Oral

Dose: 75 MG/KG

Mutation test: Micronucleus test

Species: Mouse

Dose: 1 MG/L

Cell Type: Embryo

Mutation test: Morphological transformation. Morphological transformation.

Species: Mouse

Route: Oral

Dose: 75 MG/KG

Mutation test: Cytogenetic analysis

Species: Mouse

Route: Oral

Dose: 75 MG/KG

Mutation test: SLN

Species: Mammal

Dose: 10 UMOL/L

Cell Type: kidney

Mutation test: Other mutation test systems

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat

Dose: 33750 UG/KG

Route of Application: Oral

Exposure Time: (10D PREG)

Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Section 12 - Ecological Information

No data available

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or 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.

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.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 20/21/22

Risk Statements: Harmful by inhalation, in contact with skin and if swallowed.

S: 22-36

Safety Statements: Do not breathe dust. Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Toxic (USA) Harmful (EU).

Risk Statements: Harmful by inhalation, in contact with skin and if swallowed.

Safety Statements: Do not breathe dust. Wear suitable protective clothing.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

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: Yes

NDSL: No

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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