

Material Safety Data Sheet

U.S. Department of Labor

Occupational Safety and Health Administration

Form Approved

OMB No. 1218-0072

Product name : 1,10-phenanthroline, monohydrate
Product number : SI9649
Brand : LifeSensors
Company : LifeSensors, Inc.
 271 Great Valley Parkway
 Malvern PA, 19355
Telephone # : 610.644.8845
FAX : 610.644.8616

Section I

Manufacturer's name LifeSensors, Inc.

Emergency Telephone Number 610.644.8845

Address (Number, Street, City, State and ZIP Code) 271 Great Valley
 Parkway, Malvern PA, 19355

Telephone Number for Information 610.644.8845

Date Prepared 5/23/2019

Section II—Hazardous Ingredients/Identity Information

Hazardous Components

Acute toxicity, Oral (Category 3), H301 Short-term (acute)
 aquatic hazard (Category 1), H400 Long-term (chronic)
 aquatic hazard (Category 1), H410

AcTox Oral. 3 Aquatic AcTox. 1 Aquatic ChrTox. 1

IARC: No components of this product present at level greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

ACGIH: No components of this product present at level greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH

NTP: No components of this product present at level greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP

Section III—Physical/Chemical Characteristics

Boiling Point	409.2	Specific Gravity (H ₂ O = 1)	n/a
Vapor Pressure (mm Hg)	n/a	Melting Point	n/a
Vapor Density (AIR = 1)	n/a	Evaporation Rate (Butyl Acetate = 1)	n/a

Solubility in Water: Water Insoluble. Soluble in DMSO

Appearance and Odor Liquid

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	n/a	Flammable Limits	LEL	UEL
Extinguishing Media	n/a	n/a	n/a	n/a
Special Fire Fighting Procedures	n/a			
Unusual Fire and Explosion Hazards	n/a			

(Reproduce locally)

OSHA 174 Sept.

1985

Section V—Reactivity Data

Stability	Unstable	20°C	Conditions to Avoid: Repeated freezing/thawing
	Stable	-80°	
Incompatibility (<i>Materials to Avoid</i>)	Strong oxidative agents		
Hazardous Decomposition or Byproducts	Not data available		
Hazardous Polymerization			Conditions to Avoid
	Will Not Occur		Not data available

Section VI—Health Hazard Data

Health Hazards (*Acute and Chronic*)

Inhalation: **Harmful if inhaled. May cause respiratory tract irritation**

Skin: **May be harmful if absorbed through skin. May cause skin irritation.**

Eyes: **May cause eye irritation.**

Ingestion: **May be harmful if swallowed.**

Carcinogenicity **No data available**

Signs and Symptoms of Exposure **No data available**

Medical Conditions

Generally Aggravated by Exposure **No data available**

Emergency and First Aid Procedures:

If inhaled: Move person into fresh air

Skin contact: Wash with soap and water

Eye contact: Flush eyes with water as a precaution

If swallowed: Rinse mouth with water

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled: **Wipe and rinse the surface with water.**

Waste Disposal Method: **Observe all federal, state, and local environmental regulations**

Precautions to Be Taken in Handling and Storing: **Provide appropriate exhaust ventilation at places where dust is formed. Keep container tightly closed.**

Other Precautions

Section VII—Control Measures

Contains no substances with occupational exposure limit value

Respiratory Protection **is not required**

Protective Gloves: **Yes**

Eye Protection: **Safety glasses**

Work/Hygienic Practices: **General industrial hygiene practice**