

C/D/N ISOTOPES INC.

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**MATERIAL SAFETY DATA SHEET**

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Sheet No. 9920**SECTION 1: PRODUCT IDENTIFICATION**

Catalog No.: D-2799
Product Name: 1,10-Phenanthroline-d₈
CAS No.: 90412-47-8

SECTION 2: CHEMICAL INFORMATION (UNLABELLED)

Chemical Name: 1,10-PHENANTHROLINE
CAS No.: 66-71-7
Synonyms: ortho-Phenanthroline; 4-5-Diazaphenanthrene

SECTION 3: HAZARDS IDENTIFICATION

Known Hazards: TOXIC, IRRITANT

SECTION 4: FIRST AID MEASURES

Skin Contact: Wash with water.
Ingestion: Medical assistance for gastric lavage.
Inhalation: Remove to fresh air, artificial respiration or oxygen if necessary.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, dry chemical powder, foam.
Special Fire Fighting Equipment: Wear a self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: Toxic solid. Toxic NO_x fumes on decomposition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
Spill Clean-up Methods: Provide adequate ventilation. Carefully scoop up and transfer to a closed container.

SECTION 7: HANDLING AND STORAGE

Usage/Handling Precautions: Strong fumehood
Storage Conditions: Store at room temperature. Adequate ventilation. Protect from light. Protect from moisture.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory Protection: Self-contained breathing apparatus or chemical cartridge.
Hand Protection: Chemical-resistant gloves, solvent-resistant gloves.
Eye Protection: Wear safety goggles.
Other Protective Equipment: Protective clothing.
Other Protective Measures: Provide safety showers and eyewash station near workplace.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Appearance:** White-tan solid**Melting Point (°C):** 114-7**Volatiles (%):** < 1**Water Solubility (%):** 0.33**Flash Point (°C):** None verified**Autoignition Temperature (°C):** None verified**SECTION 10: STABILITY AND REACTIVITY****Stability:** Stable.**Incompatibility (Materials to Avoid):** Acids. Oxidizing agents.**Hazardous Decomposition Products:** CO/CO₂ and NO_x on combustion.**SECTION 11: TOXICOLOGICAL INFORMATION****Acute and Chronic Health Hazards****Oral LD₅₀:** 132 mg/kg (rat)**IPR LD₅₀:** 75 mg/kg**TLV:** None verified.**Effects of Overexposure:** Irritation (eyes, respiratory, skin). Toxic (oral).**SECTION 12: ECOLOGICAL INFORMATION**

Data not yet available.

SECTION 13: DISPOSAL CONSIDERATIONS**Disposal Procedures:** Via licensed disposal company. Dispose of according to federal and local regulations.**SECTION 14: TRANSPORT INFORMATION**

Contact C/D/N Isotopes Inc.

SECTION 15: REGULATORY INFORMATION**TLV:** None verified.**SECTION 16: OTHER INFORMATION**

This product is not radioactive. The data given for this product are those of the corresponding unlabelled product indicated in Section 2, unless specifically indicated otherwise. Safety data for the labelled compounds are generally unavailable but the hazards and properties are assumed to be similar or identical to those of the unlabelled compounds. While the information set forth is believed to be accurate, C/D/N ISOTOPES INC. extends no warranties with respect hereto and disclaims all liabilities from reliance thereon. All judgements as to the suitability of the data presented with respect to the use of this product are the responsibility of the purchaser and intended user.

Date: January 1, 2014

C/D/N ISOTOPES INC.

Vincent Guay, Ph.D.