

**GFS CHEMICALS, INC.**

P.O. Box 245 Powell, OH 43065  
740-881-5501(Tel.) 740-881-5989(Fax)  
1-800-424-9300(Chemtrec 24Hr. Info.)

**MATERIAL SAFETY DATA SHEET**

108

**BATHOPHENANTHROLINE**

**CHEMICAL NAME & SYNONYMS**

Bathophenanthroline;  
4,7-Diphenyl-1,10-Phenanthroline

**DOT CLASS**

NR  
**TSCA listed** - Yes

**SARA TITLE 313**

No

**FORMULA**

(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>C<sub>12</sub>H<sub>6</sub>N<sub>2</sub>

**REPORTABLE QUANTITY**

N/A

**F.W.**

332.41

**CAS#**

1662-01-7

**PHYSICAL DATA**

Melting point 215-216°C; Insoluble in water; Soluble in alcohol, benzene and chloroform.

**APPEARANCE & ODOR**

Off-white to tan powder. Odorless.

**REACTIVITY & CONDITIONS TO AVOID**

Stable. No hazardous reactions. Incompatible with oxidizing agents.

**FIRE HAZARDS**

Will be consumed in general fire. Firefighters wear SCBA. NFPA # 2-1-1.

**EXTINGUISHER**

Fight surrounding fire

**FLASHPOINT**

N/A

**LEL**

N/A

**UEL**

N/A

**HEALTH HAZARDS**

Irritant to eyes and mucous membranes. Internal toxicity-unknown. No evidence of carcinogenicity. OSHA PEL/ACGIH TLV not established. Contact with skin may produce red stain due to reaction with iron. The toxicological properties of this material have not been fully investigated.

**SPECIAL PRECAUTIONS**

Avoid inhalation of dust. Wear goggles while handling.

**FIRST AID**

Wash irritated area thoroughly with water. If swallowed, give water to drink and get medical attention.

**SPILLS & LEAKS**

Wash up with water. Disposal to sanitary drain or to incinerator. Check local regulations prior to disposal to sewer.

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**CATALOG #**

108

**PREPARED BY**

MDM

**DATE**

April 28, 2005