

**GFS CHEMICALS, INC.**

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**MATERIAL SAFETY DATA SHEET**

286

**BATHOPHENANTHROLINE, SULFONATED, SODIUM SALT**

**CHEMICAL NAME & SYNONYMS**

Bathophenanthroline, Sulfonated, Sodium Salt;  
4,7-Di(Phenylsulfonic Acid)-1,10-Phenanthroline,  
Disodium Salt

**DOT CLASS**

NR

**SARA TITLE 313**

No

**TSCA listed** - Yes

**FORMULA**

$C_{12}H_6N_2(C_6H_4SO_3Na)_2$

**REPORTABLE QUANTITY**

N/A

**F.W.**

536.50

**CAS#**

53744-42-6

**PHYSICAL DATA**

Water soluble. Soluble in alcohol.

**APPEARANCE & ODOR**

Tan to faint pink powder. Odorless.

**REACTIVITY & CONDITIONS TO AVOID**

Stable. No known hazardous reactions. Incompatible with oxidizing agents.

**FIRE HAZARDS**

Not flammable. Will decompose in general fire. Firefighters wear SCBA.

**EXTINGUISHER**

Water, CO<sub>2</sub>, dry chemical.

**FLASHPOINT**

N/A

**LEL**

N/A

**UEL**

N/A

**HEALTH HAZARDS**

Dust may be irritating to nose and throat. Will discolor skin due to reaction with iron. Presumed to be toxic by ingestion or by inhalation. No data on toxicity levels. [Parent compound (1,10-Phenanthroline) LD<sub>50</sub> (oral-rat) 132 mg/kg.] No evidence of carcinogenicity. OSHA PEL/ACGIH TLV not established.

**SPECIAL PRECAUTIONS**

Wear goggles while handling. Use good ventilation or suitable respirator if dust is raised. Store tightly closed.

**FIRST AID**

Wash skin or eyes thoroughly with water. If ingested, give water to drink and get medical attention.

**SPILLS & LEAKS**

Save as much as possible for recovery. Wash up area thoroughly with water. Disposal in incinerator. Small amounts to sanitary drain, check local regulations.

**CATALOG #**

286

**PREPARED BY**

MDM

**DATE**

April 28, 2005