



Health	2
Fire	0
Reactivity	0
Personal Protection	

## Material Safety Data Sheet

### Congo red

#### 1: Chemical Product and Company Identification

**Product Name:** Congo red

**Catalog Code:** 21770010-1

**CAS#:** 573-58-0

**RTECS:** QK1400000

**TSCA:** TSCA 8 ( b ) inventory : Congo red

**CI#:** Not available.

**Synonym:** Benzo Congo Red; Sodium diphenyldiazo-bis(alpha-naphthylaminesulfonate)

**Chemical Name:** Congo red

**Chemical Formula:** C<sub>32</sub>H<sub>22</sub>N<sub>6</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>2</sub>

**Contact information:**

**bioWORLD**

4150 Tuller Rd

Suite 228, Dublin, OH 43017, USA

For information, call: 614-792-8680

Fax Number: 614-792-8685

Order Online: [www.bio-world.com](http://www.bio-world.com)

E-mail : [save@bio-world.com](mailto:save@bio-world.com)

**In case of a chemical emergency, contact local hospital.**

**For non-emergency assistance, call: 1-800-860-9729**

#### 2: Composition and Information on Ingredients

**Composition:**

Name	CAS#	% by Weight
Congo red	573-58-0	-

**Toxicological Data on Ingredients:**

LD<sub>50</sub> (Oral, Rat): 15200 mg/kg

#### 3: Hazards Identification

**Potential Acute Health Effects:** Toxic. May cause cancer. Possible risk of harm to the unborn child. Irritating to eyes, respiratory system and skin. Calif. Prop. 65 carcinogen.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Possible carcinogen.

MUTAGENIC EFFECTS: Possible mutagen.

TERATOGENIC EFFECTS: Possible teratogen.

DEVELOPMENTAL TOXICITY: Effects on fertility.

#### 4: First Aid Measures

**Eye Contact:** 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.

**Skin Contact:** In case of contact, immediately wash skin with soap and copious amounts of water.

**Serious Skin Contact:** Not available.

**Inhalation:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Serious Inhalation:** Not available.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Serious Ingestion:** Not available.

#### 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Product of Combustion:** Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides.

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:**  
Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Dry chemical powder.

LARGE FIRE: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

#### 6: Accidental Release Measures

**Small Spill:** 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.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

#### 7: Handling and Storage

**Precautions:** Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

**Storage:** Keep tightly closed.

### 8: Exposure Controls/Personal Protection

**Engineering Controls:** Use only in a chemical fume hood. Safety shower and eye bath.

**Personal Protection:** Respiratory : Government approved respirator.

Hand: Chemical resistant gloves.

Eye: Safety glasses.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Boots. Dust respirator. Gloves.

**Exposure Limits:** Not available.

### 9: Physical and Chemical Properties

**Physical State and Appearance:** Solid

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 696.67 g/mole

**Color:** Not available.

**pH(1% soln/water):** 6.7

**Boiling Point:** Not available.

**Melting Point:** 360 °C

**Critical Temperature:** Not available.

**Specific Gravity:** Not available.

**Vapour Pressure:** Not available.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Not available.

### 10: Stability and Reactivity Data

**Stability:** Stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Strong oxidizing agents.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

### 11: Toxicological Information

**Routes of Entry:** Skin Contact . Eye Contact. Inhalation. Ingestion

**Toxicity to Animals:**

LD<sub>50</sub> (Oral, Rat): 15200 mg/kg

**Chronic Effects on Humans:** Carcinogen: This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Teratogen: Possible risk of congenital malformation in the fetus.

Mutagen: Unscheduled DNA synthesis.

Reproductive hazard: Effects on fertility. Paternal effects (Spermatogenesis (including genetic material, sperm morphology, motility, and count)).

**Other Toxic Effects on Humans:** Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

### 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Product of Biodegradation:** Not available.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

### 13: Disposal Considerations

**Waste Disposal:** Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations. (DN) Requires special label: "Contains a substance which is regulated by Danish work environmental law due to the risk of carcinogenic properties."

#### 14: Transport Information

**DOT Classification:** Not a DOT controlled material.

**Identification:** Not available.

**Special Provisions for Transport:** Not available.

#### 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8 (b) inventory : Congo red

**Other Regulations:** EU DIRECTIVES CLASSIFICATION

Symbol of Danger: T

Indication of Danger: Toxic.

R: 45-63

Risk Statements: May cause cancer. Possible risk of harm to the unborn child.

S: 53-45

Safety Statements: Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Other Classifications:**

**WHMIS(Canada):** Not available.

**DSCL(EEC):** Not available.

**HMIS(U.S.A):**

**Health Hazard:** 2

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:**

**National Fire Protection Association (U.S.A):**

**Health:** 2

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

#### 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 22/12/2008 4:26:35 PM

**Last Updated:** 22/12/2008 4:26:35 PM

### **Disclaimer**

This product is offered by bioWORLD for research, laboratory or further manufacturing use. Not for human use or consumption.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Bio-World.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Bio-World.com has been advised of the possibility of such damages.