

Congo Red, HARLECO ® , Certified Biological Stain, For Histology and Cytology

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Congo Red, HARLECO ® , Certified Biological Stain, For Histology and Cytology **Product Code** 186

Manufacturer EMD Chemicals Inc.
P.O. Box 70
480 Democrat Road
Gibbstown, NJ 08027
Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc. **Effective Date** 3/3/2003

For More Information Call 856-423-6300 Technical Service
Monday-Friday: 8:00 AM – 5:00 PM

In Case of Emergency Call 800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym DIRECT RED 28; C.I. #22120

Material Uses Analytical reagent.

Chemical Family Dye.

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
CONGO RED	573-58-0	100

Section 3. Hazards Identification

Physical State and Appearance Solid. (Powdered solid.)

Emergency Overview CAUTION!
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA.

Routes of Entry Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes May be hazardous in case of eye contact (irritant).
Skin May be hazardous in case of skin contact (sensitizer).
Inhalation No known acute effects of this product resulting from inhalation.
Ingestion May be hazardous in case of ingestion.

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Medical Conditions Aggravated by Overexposure: Additional information See Toxicological Information (section 11)
Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product	Non-flammable.
Auto-ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: No. Risks of explosion of the product in presence of mechanical impact: No.
Fire Fighting Media and Instructions	Not applicable.
Protective Clothing (Fire)	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill and Leak	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.
Spill Kit Information	No specific spill kit required for this product.

Section 7. Handling and Storage

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Handling	Avoid contact with eyes. Do not ingest. Avoid prolonged or repeated contact with skin. Do not breathe dust.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
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Personal Protection

Eyes Splash goggles.

Body Lab coat.

Respiratory Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Hands Gloves.

Feet Not applicable.

Protective Clothing

(Pictograms)

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name	Exposure Limits
CONGO RED	Not available.

Section 9. Physical and Chemical Properties

Odor	Not available.
Color	Brownish-red.
Physical State and Appearance	Solid. (Powdered solid.)
Molecular Weight	696.68 g/mole
Molecular Formula	C ₃₂ -H ₂₂ -N ₆ -O ₆ -S _{2.2} Na
pH	Not available.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	Not available.
Specific Gravity	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
LogKow	Not available.
Solubility	Soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity Conditions of	The product is stable.
	Not available.

Instability

Incompatibility with Reactive with oxidizing agents.

Various Substances

Rem/Incompatibility Not available.

Hazardous Not available.

Decomposition

Products

Hazardous Will not occur.

Polymerization

Section 11. Toxicological Information

RTECS Number:

Congo Red QK1400000

Toxicity Acute oral toxicity (LD50): 15200 mg/kg [Rat].

Chronic Effects on Humans **TERATOGENIC EFFECTS:** Classified 3 by European Union.

Acute Effects on Humans May be hazardous in case of eye contact (irritant). May be hazardous in case of skin contact (sensitizer). May be hazardous in case of ingestion.

Synergetic Products (Toxicologically) Not available.

Irritancy Draize Test: Not available.

Sensitization Hazardous in case of skin contact (sensitizer).

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Toxicity to Reproductive System Tests on laboratory animals for reproductive effects are cited in Registry of Toxic Effects on Chemical Substances (RTECS).

Teratogenic Effects Classified 3 by European Union.

Mutagenic Effects Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS).

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Toxicity of the Products of Biodegradation The products of degradation are less toxic than the product itself.

Section 13. Disposal Considerations

EPA Waste Number Not available.

Treatment Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. ALWAYS CONTACT A PERMITTED WASTE DISPOSAL (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

Section 14. Transport Information

DOT Classification Not available.

TDG Classification Not available.

IMO/IMDG Classification	Not available.
ICAO/IATA Classification	Not available.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 5(a)2 proposed significant rules: CONGO RED
TSCA 5(a)2 final significant rules: CONGO RED
TSCA 8(b) inventory: CONGO RED
TSCA 8(d) H and S data reporting: CONGO RED: 1982
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: CONGO RED
SARA 311/312 MSDS distribution – chemical inventory – hazard identification: CONGO RED: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada).
CEPA DSL: CONGO RED
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations

EINECS CONGO RED 209–358–4
DSCL (EEC) R45– May cause cancer.
R63– Possible risk of harm to the unborn child.

International Lists Australia (NICNAS): CONGO RED
Korea (TCCL): CONGO RED

Philippines (RA6969): CONGO RED
China: No products were found.

State Regulations New Jersey: CONGO RED
California prop. 65: No products were found.

Section 16. Other Information

National Fire Protection	1 Fire Hazard
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**Association
(U.S.A.)**

Health

Reactivity

**Specific
Hazard**

**Changed Since Last
Revision** +

Notice to Reader

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