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Section I - Product Identification

Product: An aqueous solution of congo red.

Intended Uses: A solution used for laboratory staining.

Uses advised against: Not for food use. Intended for laboratory use only.

Country of origin: United States.

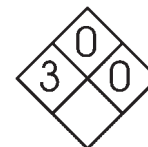
Manufacturer Identification

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Emergency Telephone Number

CHEMTREC Emergency Response Telephone Number: (800)424-9300. Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.



Section II - Hazard Identification

This item is considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or EU, Regulation 1272/2008.

Acute toxicity (Oral): Category 5 (H303). May be harmful if swallowed.

Acute toxicity (Dermal): Category 5 (H313). May be harmful in contact with skin.

Eye damage/eye irritation: Category 2B (H320). May cause eye irritation.

Carcinogenicity: Category 1B (H350). May cause cancer.

Reproductive toxicity: Category 2 (H361). Suspected of damaging fertility or the unborn child.

The product may cause skin or eye irritation and may be harmful if swallowed. It is a suspected carcinogen and a reproductive toxin.

Precautionary Statements

P102: Keep out of reach of children.

P103: Read label before use.

P264: Wash hands thoroughly after handling.

P265: Do not touch eyes.

P270: Do not eat, drink or smoke when using this product.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P318: if exposed or concerned, get medical advice.

P337+P317: If eye irritation persists: Get medical help.

P405: Store locked up.

Safety Ratings

Health: A suspected carcinogen *Flammability:* None *Reactivity:* None *Contact:* None

Recommended safety equipment: Not normally required.

Storage: Store locked up

NFPA Ratings

Health = 3. Can cause serious or permanent injury.

Flammability = 0. Will not burn

Reactivity = 0. Stable.

Potential Health Effects

Congo red is a azo dye that is metabolized to benzidine and is suspected of causing cancer as well as being a reproductive toxin. It can also cause anaphylatic shock.

Inhalation: May be Irritating to respiratory tract.

Ingestion: While the acute toxicity is low, large doses may cause nausea, vomiting, diarrhea, etc

Skin contact: Can cause skin irritation or aggravation of existing dermatitis.

Eye contact: Can cause eye irritation.

Chronic Exposure: Congo red is a suspected carcinogen.

Aggravation of preexisting conditions: Unknown.

Section III - Composition/Information on Components

Ingredient	CAS#	EC/List No.	%
Congo red	573-58-0	209-358-4	1%

Section IV - First Aid Measures

Inhalation: Remove to fresh air and consult a physician.

Ingestion: Rinse mouth but do not induce vomiting unless directed by a physician. Get medical attention if needed.

Skin Contact: Unlikely to be an issue. Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical advice if needed.

Section V - Fire Fighting Measures

Fire: Not normally a fire hazard.

Explosion: Not normally an explosion hazard.

Fire Extinguishing Media: Any means suitable for surrounding fire.

Special information: Nothing exceptional.

Section VI - Accidental Release Measures

Absorb with a suitable absorbent and store in a suitable container for disposal.

Section VII - Handling and Storage

P102+P233+P403+P405; Store locked up in a well-ventilated place. Keep container tightly closed. Keep out of reach of children.

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Congo red	No data	No data	No data

Legend

ACGIH: American Conference of Governmental Industrial Hygienists.

OSHA: Occupational Safety and Health Administration.

NIOSH: National Institute for Occupational Safety and Health.

IDLH: Immediately dangerous to life or health.

Ventilation System: Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

Personal Respirator: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are not required but may be used as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practices

Section IX - Physical and Chemical Properties

Appearance and Odor: A clear and odorless red solution.

Flash point: Not applicable.

Auto ignition temperature: Not applicable

Boiling point range: No data

Flammable Limits: Not applicable.

Boiling Point: 100 °C (212 °F)

Density: 1.00 g/ml @ 22.5 °C

Decomposition temperature: No data
Melting point: 0 °C
pH: ~ 7
Vapor pressure (mm Hg): 18 @ 20 °C
Viscosity: 0.01 poise

Evaporation Rate (Water = 1): 1
Partition coefficient (n-Octanol/Water): No data
Solubility: Infinitely miscible with water
Vapor density (air = 1): 0.6
Volatile organic carbon (VOC): Not applicable

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: Pyrolysis will release toxic gases such as oxides of nitrogen and sulfur...

Hazardous polymerization: Will not occur.

Incompatibilities: Strong acids, oxidizers etc.

Conditions to avoid: Nothing unusual.

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Congo red	15,200 mg/kg (Rat)	> 8000 mg/kg (Rat)	No information

Cancer lists

Ingredient	Known Carcinogenicity?	NTP?	IARC Category
Congo red	Listed as benzidine dye	yes	2A

Section XII - Ecological Information

This product is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The product biodegrades quickly and does not contain endocrine disruptors, persistent organic pollutants or ozone depleters.

Soil Mobility: Unknown

Environmental Fate: Biodegradable

Environmental Toxicity: The product has low environmental toxicity.

Component	Freshwater Fish	Water Flea	Freshwater algae
Congo red	No data	No data	No data

Section XIII - Disposal Considerations

The disposal of suspected carcinogens is often restricted by local authorities. Insure compliance with all federal, state and local government regulations

Section XIV - Transportation Information

Not regulated by DOT or IATA.

Section XV - Regulatory Information

Chemical Inventory Status

Ingredient	TSCA	EC
Congo red	Yes	Yes

Federal, State and International Regulations

Ingredient	SARA 302		SARA 313		RCRA	TSCA	
	RQ	TPQ	List	Category	261.33	8(D)	Ca. Prop 65
Congo red	No	No	No	No	No	No	Yes

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312

Acute:	No
Chronic:	No
Fire:	No
Pressure:	No

Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

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