

MATERIAL SAFETY DATA SHEET

SECTION I NAME

Product: CONGO-RED, AQUEOUS SOLUTION
 Chemical Synonyms: pH Indicator and/or Biological Stain
 Formula: $C_{32}H_{22}N_6O_6S_2$
 Unit(s) Size: 1 Liter
 C.A.S. No.: 573-58-0

	HEALTH	UK
	FIRE	U
CHEMREC 800-424-9300 Day 716-226-6177 Night 716-334-4222		REACTIVITY 0

NFPA
 HAZARD RATING
 LEAST BLIGHT MODERATE HIGH EXTREME
 0 1 2 3 4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Congo Red Solution: (a) pH Indicator	0.1	None established
(b) Biological Stain	1.0	None established

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C	Specific Gravity (H ₂ O=1)	Approx. 1.0
Boiling Point (°F)	100°C (212°F)	Percent Volatile by Volume (%)	98%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Ether = 1)	Greater than 1
Vapor Density (Air=1)	0.7 water		
Solubility in Water	Complete		
Appearance and Odor	Red liquid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): Non-combustible (NA).
 Extinguisher Media: Use carbon dioxide (CO₂); dry chemical (ABC); water spray.

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, emits toxic fumes of oxides of sulfur (SO_x) and oxides of nitrogen (NO_x).

D.O.T. HMR-REGULATED.

FREY SCIENTIFIC
 905 HICKORY LANE MANSFIELD OHIO 44905
 Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

MSDS No. _____
 Effective Date _____

SECTION V HEALTH HAZARD DATA

Threshold Limited Value: None established.
 Effects of Overexposure: May be harmful by ingestion or skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Emergency and First Aid Procedures

IN CASE OF CONTACT: Immediately flush eyes or skin with copious amounts of water for at least 15 minutes. For eyes, get medical attention.
 IF SWALLOWED: If conscious, give one or two glasses of water. Induce vomiting and call a physician.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Protect from light.
	Stable		Excessive temperature and heat.
Incompatibility (Materials to avoid)	Strong oxidizers.		
Hazardous Decomposition Products	Combustion will produce carbon dioxide and probably emits toxic fumes of oxides of sulfur and nitrogen.		
Hazardous Polymerization	Conditions to Avoid		
May Occur	Will Not Occur	Not applicable	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Absorb in vermiculite. Scoop up and place in a suitable container.

Waste Disposal Method

Dispose of in an approved incinerator or contract with licensed chemical waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type)	Good ventilation should be sufficient.
Ventilation (Specify Type)	Local Exhaust: Not required. Special: No. Mechanical (General): Not required. Other: No.
Protective Gloves	Rubber
Other Protective Equipment	Goggles, snock, apron, proper gloves, and eye wash station.
Eye Protection	Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Store in a cool, dry place. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions

Read label on container before using. There is insufficient data in the published literature to assign complete numerical HAZARD RATINGS and laboratory protective equipment for this product. Special precautions must be used in storage, use and handling. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. *10.1* Date *11/2/87* Approved *Charles D. Pincus* Chemical Safety Coordinator *GP*