

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **194-370 W/B RED DYE**

Supplier - Manufacturer **Chemcraft International Inc.,**
155 Rose Glen Road North
P.O. Box 458
Port Hope, ON.
Canada L1A 3Z3

Telephone (905) 885-6388 Fax (905) 885-5097

In case of Emergency (905) 885-6388, (800) 263-7951

For Transport Emergency or After Hours

CANUTEC (613) 996-6666

Code 194-370

Synonym W/B RED DYE

Chemical Name Not applicable.

Chemical Family Coloring material.

Chemical Formula Not applicable.

Material Uses Coatings: Manufacture of surface coatings.

Product Identification Number (PIN) Not regulated.

Section 2. Hazardous Ingredients

Exposure limits

Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀	TLV/PEL
Diethylene glycol monobutyl ether	112-34-5	50 - 70	ORAL (LD50): Acute: 6560 mg/kg [Rat]. 7292 mg/kg [Rat]. . 5717 mg/kg [Rat]. DERMAL (LD50): Acute: 4120 mg/kg [Rabbit]. 2764 mg/kg [Rabbit]. 4040 mg/kg [Rabbit].	Not available.
Ethyl lactate	97-64-3	15 - 30	ORAL (LD50): Acute: 2000 mg/kg [Rat].	Not available.

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

Section 3. Physical Data

Physical State and Appearance Liquid.

Color Dark. Odor Slight. Taste Not available.

Molecular Weight Not applicable.

pH (1% soln/water) Neutral.

Boiling Point The lowest known value is 154°C (309.2°F) (Propanoic acid, 2-hydroxyl-, ethyl ester). Weighted average: 206.66°C (404°F)

Melting Point May start to solidify at -68.1°C (-90.6°F) based on data for: Ethanol, 2-(2-butoxyethoxy)-.

Critical Temperature Not available.

Specific Gravity Weighted average: 0.97 (Water = 1)

Vapor Pressure The highest known value is 0.001 kPa (0.01 mm Hg) (at 20°C) (Ethanol, 2-(2-butoxyethoxy)-).

Continued on Next Page

Vapor Density	The highest known value is 5.6 (Air = 1) (Ethanol, 2-(2-butoxyethoxy)-).
Volatility	Not available.
Odor Threshold	The lowest known value is 0.18 ppm (Propanoic acid, 2-hydroxyl-, ethyl ester)
Water/Oil Dist. Coeff.	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water.
Solubility	Easily soluble in cold water, hot water. Insoluble in methanol, diethyl ether.

Section 4. Fire and Explosion Hazard

The Product is:	Combustible.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames, sparks and static discharge, of heat.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	When heated to decomposition, it emits acrid smoke and irritating fumes. (Ethanol, 2-(2-butoxyethoxy)-)
Flash Points	Closed cup: 79°C (174.2°F).
Flammable Limits	The greatest known range is Lower: 0.85% Upper: 24.6% (Ethanol, 2-(2-butoxyethoxy)-)
Auto-Ignition Temperature	The lowest known value is 227.78°C (442°F) (Ethanol, 2-(2-butoxyethoxy)-).
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Explosion Hazards in Presence of Various Substances	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 5. Reactivity Data

Stability	The product is stable.
Decomposition products	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Slightly reactive to reactive with oxidizing agents.
Corrosivity	Not available.
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.

Section 6. Toxicological Properties

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 2000 mg/kg [Rat]. (Propanoic acid, 2-hydroxyl-, ethyl ester). Acute dermal toxicity (LD50): 2764 mg/kg [Rabbit]. (Ethanol, 2-(2-butoxyethoxy)-).
Effects of Acute Exposure	Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to blood, kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Continued on Next Page

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	Material is destructive to tissue of the mucous membranes and upper respiratory tract. (Ethanol, 2-(2-butoxyethoxy)-)
Exposure Limits	Not available.

Section 7. Preventive Measures

Personal Protection	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Impervious gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor 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.	
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.	
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.	
Large Spill	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk.	
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.	
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).	
TDG Classification	-	
PIN	Not regulated.	PG: -
Special Provisions for Transport	-	
Federal and State Regulations	Pennsylvania RTK: Ethanol, 2-(2-butoxyethoxy)- New Jersey: Ethanol, 2-(2-butoxyethoxy)-	
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
Other Classifications	WHMIS (Canada)	Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). Class D-2B: Material causing other toxic effects (TOXIC).
	HCS (U.S.A.)	Irritating material Target organ effects Combustible liquid
Hazardous Material Information System (U.S.A.)	Health Hazard	* 1
	Fire Hazard	2
	Reactivity	0
	Personal Protection	G

National Fire Protection Association (U.S.A.)	Health	1
	Fire Hazard	2
	Reactivity	0
	Specific Hazard	

Section 8. 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 if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
Hazardous Skin Contact	Not available.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Hazardous Inhalation	Not available.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous Ingestion	Not available.

Section 9. Preparation Information

References	-Manufacturers Material Safety Data Sheets.
Other Special Considerations	Not available.
Related Information	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.
Preparation Information	Validated by Florendo Tarnate on 9/16/2005. Verified by Florendo Tarnate. Printed 9/16/2005.
Information Contact	Prepared by the Health, Safety and Environment Department, Chemcraft International Inc., P.O. Box 458, 155, Rose Glen Road North, Port Hope, ON. Canada. Phone: 905 885-6388 Fax: 905 885-5097

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.