

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **194-451 W/B RED BROWN DYE**

Supplier - Manufacturer **Chemcraft International Inc.,**

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P.O. Box 458  
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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 194-451

Synonym W/B RED BROWN DYE

Chemical Name Not applicable.

Chemical Family Pigments. (Coloring material.)

Chemical Formula Not applicable.

Material Uses Coatings: Manufacture of surface coatings.

Product Identification Number (PIN) 1993 FLAMMABLE LIQUID, N.O.S. (ETHOXYPROPANOL)

## Section 2. Hazardous Ingredients

### Exposure Limits

Name	CAS #	% by Weight	LC <sub>50</sub> /LD <sub>50</sub>	TLV/PEL
Propylene glycol monoethyl ether	1569-02-4	10-30	Not available.	Not available.
Diethylene glycol monobutyl ether	112-34-5	0.5-1	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.

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 Not available. Odor Not available. Taste Not available.

Molecular Weight Not applicable.

pH (1% soln/water) 7 [Neutral.]

Boiling Point The lowest known value is 100°C (212°F) (Water). Weighted average: 103.86°C (218.9°F)

Melting Point May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -2.01°C (28.4°F)

Critical Temperature Not available.

Specific Gravity Weighted average: 0.97 (Water = 1)

Vapor Pressure The highest known value is 2.3 kPa (17.2 mmHg) (at 20°C) (Water). Weighted average: 2.23 kPa (16.73 mmHg) (at 20°C)

Vapor Density Greater than air.

Volatility Not available.

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<b>Odor Threshold</b>	Not available.
<b>Water/Oil Dist. Coeff.</b>	The product is much more soluble in water.
<b>Ionicity (in Water)</b>	Not available.
<b>Dispersion Properties</b>	See solubility in water, methanol, diethyl ether.
<b>Solubility</b>	Easily soluble in cold water, hot water, methanol. Soluble in diethyl ether. Insoluble in n-octanol.

#### **Section 4. Fire and Explosion Hazard**

<b>The Product is:</b>	Flammable.
<b>Fire Hazards in Presence of Various Substances</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
<b>Special Remarks on Fire Hazards</b>	When heated to decomposition, it emits acrid smoke and irritating fumes. (Ethanol, 2-(2-butoxyethoxy)-)
<b>Flash Points</b>	The lowest known value is Closed cup: Between 37.8°C (100°F) and 61°C (142°F).. (Tagliabue.). (2-Propanol, 1-ethoxy-)
<b>Flammable Limits</b>	The greatest known range is LOWER: 0.85% UPPER: 24.6% (Ethanol, 2-(2-butoxyethoxy)-)
<b>Auto-Ignition Temperature</b>	The lowest known value is 227.78°C (442°F) (Ethanol, 2-(2-butoxyethoxy)-).
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2).
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
<b>Special Remarks on Explosion Hazards</b>	Not available.

#### **Section 5. Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Decomposition products</b>	Not available.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with various substances</b>	Not available.
<b>Corrosivity</b>	Not available.
<b>Special Remarks on Reactivity</b>	Not available.
<b>Special Remarks on Corrosivity</b>	Not available.

#### **Section 6. Toxicological Properties**

<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 5717 mg/kg [Rat]. (Ethanol, 2-(2-butoxyethoxy)-). Acute dermal toxicity (LD50): 2764 mg/kg [Rabbit]. (Ethanol, 2-(2-butoxyethoxy)-).
<b>Effects of Acute Exposure</b>	Slightly hazardous in case of ingestion.
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Not available. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. The substance is toxic to blood, kidneys, lungs, the nervous system, liver, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage.
<b>Special Remarks on Toxicity to Animals</b>	Not available.

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<b>Special Remarks on Chronic Effects on Humans</b>	Not available.
<b>Special Remarks on Other Toxic Effects on Humans</b>	Material is destructive to tissue of the mucous membranes and upper respiratory tract. (Ethanol, 2-(2-butoxyethoxy)-)
<b>Exposure Limits</b>	Not available.

## Section 7. Preventive Measures

<b>Personal Protection</b>	Safety glasses. Lab coat. Impervious gloves.	
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Chemical resistant gloves, such as Norfoil should be used when handling this product. Please consult a Glove Manufacturer for alternate choices. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
<b>Engineering Controls</b>	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.	
<b>Small Spill</b>	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.	
<b>Large Spill</b>	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.	
<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
<b>Precautions</b>	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. If ingested, seek medical advice immediately and show the container or the label.	
<b>Storage</b>	Store in a segregated and approved area. 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).	
<b>TDG Classification</b>	3	
<b>PIN</b>	1993 FLAMMABLE LIQUID, <b>PG:</b> III N.O.S. (ETHOXYPROPANOL)	
<b>Special Provisions for Transport</b>		
<b>Federal and State Regulations</b>	No products were found.	
<b>Other Regulations</b>	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
<b>Other Classifications</b>	<b>WHMIS (Canada)</b>	<b>Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).</b> <b>Class D-2A: Material causing other toxic effects (VERY TOXIC).</b> <b>Class D-2B: Material causing other toxic effects (TOXIC).</b>
	<b>HCS (U.S.A.)</b>	Class: Target organ effects. Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health Hazard</b>	* 0
	<b>Fire Hazard</b>	2
	<b>Reactivity</b>	0
	<b>Personal Protection</b>	A
<b>National Fire Protection Association (U.S.A.)</b>	<b>Health</b>	0
	<b>Fire Hazard</b>	2
	<b>Reactivity</b>	0
	<b>Specific Hazard</b>	

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## Section 8. First Aid Measures

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.
<b>Hazardous Skin Contact</b>	Not available.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Hazardous Inhalation</b>	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
<b>Ingestion</b>	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.
<b>Hazardous Ingestion</b>	Not available.

## Section 9. Preparation Information

<b>References</b>	-Manufacturers Material Safety Data Sheets.
<b>Other Special Considerations</b>	This material contains Chromium (CAS No7440-47-3) at <2% w/w.
<b>Related Information</b>	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.
<b>Preparation Information</b>	<b>Validated by C.M. Kelly on 7/14/2003.</b> <b>Verified by C.M. Kelly.</b> <b>Printed 10/31/2003.</b>
<b>Information Contact</b>	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.*