

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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Code 194-451

Synonym W/B RED BROWN DYE

Chemical Name Not applicable.

Chemical Family Inert substance. (Coloring material. Polymer.)

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	30 - 50	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].	
Ethylene glycol monopropyl ether	2807-30-9	15 - 30	ORAL (LD50): Acute: 3089 mg/kg [Rat]. DERMAL (LD50): Acute: 1337 mg/kg [Rabbit]. VAPOR (LC50): Acute: 1530 mg/l 8 hour/hours [Rabbit].	TWA: 25 ppm
Dipropylene glycol monomethyl ether	34590-94-8	1 - 5	ORAL (LD50): Acute: 5380 mg/kg [Rat]. 5200 mg/kg [Rat]. DERMAL (LD50): Acute: 9510 mg/kg [Rabbit].	TWA: 100 ppm CEIL: 150 ppm TWA: 600 mg/m ³ CEIL: 900 mg/m ³
Propylene glycol	57-55-6	1 - 5	ORAL (LD50): Acute: 21000 mg/kg [Rat]. DERMAL (LD50): Acute: 20800 mg/kg [Rabbit].	
Tetrahydrofurfural alcohol	97-99-4	1 - 5	ORAL (LD50): Acute: 1600 mg/kg [Rat].	

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.

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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 149.5°C (301.1°F) (Ethanol, 2-propoxy-). Weighted average: 199.19°C (390.5°F)			
Melting Point	May start to solidify at -60°C (-76°F) based on data for: 1,2-Propanediol. Weighted average: -75.36°C (-103.6°F)			
Critical Temperature	Not available.			
Specific Gravity	1.05 (Water = 1)			
Vapor Pressure	The highest known value is 0.2 kPa (1.3 mm Hg) (at 20°C) (Ethanol, 2-propoxy-). Weighted average: 0.07 kPa (0.53 mm Hg) (at 20°C)			
Vapor Density	Greater than air.			
Volatility	Not available.			
Odor Threshold	The lowest known value is 34.6 ppm (Propanol, 1(or 2)-(2-methoxymethylethoxy)-)			
Water/Oil Dist. Coeff.	The product is equally soluble in octanol and water.			
Ionicity (in Water)	Not available.			
Dispersion Properties	See solubility in water, methanol, diethyl ether, n-octanol.			
Solubility	Easily soluble in hot water, methanol, diethyl ether. Soluble in cold water, n-octanol.			

Section 4. Fire and Explosion Hazard

The Product is:	Non-flammable.
Fire Hazards in Presence of Various Substances	Not applicable
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Non-flammable but will burn on prolonged exposure to flame or high temperature.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Auto-Ignition Temperature	Not applicable.
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Explosion hazards in the presence of various substances	Not applicable
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.

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Incompatibility with various substances	Reactive or incompatible with the following materials: oxidizing materials, reducing materials, organic materials, acids and alkalis. Non-reactive or compatible with the following materials: combustible materials, metals and moisture.
Corrosivity	Not available.
Special Remarks on Reactivity	Incompatible with chloroformates. (1,2-Propanediol)
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): 1600 mg/kg [Rat]. (2-Furanmethanol, tetrahydro-). Acute dermal toxicity (LD50): 1337 mg/kg [Rabbit]. (Ethanol, 2-propoxy-). Acute toxicity of the vapor (LC50): 1530 mg/l 8 hour/hours [Rabbit]. (Ethanol, 2-propoxy-).
Effects of Acute Exposure	Hazardous in case of skin contact (permeator), of ingestion, of inhalation.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 4 (Probably not for humans.) by IARC, None. by OSHA [2-Furanmethanol, tetrahydro-]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: 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.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May contain traces of ethylene oxide . Ethylene oxide has been reported to be a potential carcinogen. (Ethanol, 2-propoxy-)
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. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. 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.
Small Spill	Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container. Finish cleaning by flushing the contaminated surface with water and allowing it to run to the foul sewer.
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Precautions	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 tightly closed. Keep container in a cool, well-ventilated area.
TDG Classification	-

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PIN Not regulated. **PG:** -

Special Provisions for Transport -

Federal and State Regulations Pennsylvania RTK: Propanol, 1(or 2)-(2-methoxymethylethoxy)-; 1,2-Propanediol; 2-Furanmethanol, tetrahydro-; Ethanol, 2-propoxy-; Ethanol, 2-(2-butoxyethoxy)-
 Massachusetts RTK: 2-Furanmethanol, tetrahydro-
 New Jersey: Propanol, 1(or 2)-(2-methoxymethylethoxy)-; Ethanol, 2-propoxy-; Ethanol, 2-(2-butoxyethoxy)-
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Propanol, 1(or 2)-(2-methoxymethylethoxy)-: Fire hazard; 1,2-Propanediol: Delayed (chronic) health hazard; Ethanol, 2-propoxy-: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications **WHMIS (Canada)** **Class D-2B: Material causing other toxic effects (Toxic).**
HCS (U.S.A.) Target organ effects

Hazardous Material Information System (U.S.A.)	Health Hazard	* 1
	Fire Hazard	0
	Reactivity	0
	Personal Protection	G

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

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.

Hazardous Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Hazardous Inhalation Not available.

Ingestion Do not induce vomiting. Examine the lips and mouth to ascertain if the tissues are damaged, a possible indication that 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 This material contains Chromium (CAS No7440-47-3) at <2% w/w.

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 L. Goode on 11/8/2007.

Verified by L. Goode.

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Notice to Reader

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