

# Material Safety Data Sheet

## Section 1. Product Identification and Use

**Product Name - Trade Name**      **194-452 W/B DARK BROWN 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**      194-452

**Synonym**      W/B DARK BROWN DYE

**Chemical Name**      Not applicable.

**Chemical Family**      Synthetic polymer in organic solvent. (Paint.)

**Chemical Formula**      Not applicable.

**Material Uses**      Coatings: Surface coatings and finishes.

**Product Identification Number (PIN)**      Not regulated.

## Section 2. Hazardous Ingredients

### Exposure limits

| Name                                | CAS #      | % by Weight | LC <sub>50</sub> /LD <sub>50</sub>   | TLV/PEL  |
|-------------------------------------|------------|-------------|--|--|
| Diethylene glycol monobutyl ether   | 112-34-5   | 30 - 50     | ORAL (LD50): Acute: 6560 mg/kg [Rat]. 7292 mg/kg [Rat].<br>. 5717 mg/kg [Rat].<br>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  |
| Propylene glycol                    | 57-55-6    | 5 - 15      | ORAL (LD50): Acute: 21000 mg/kg [Rat]. DERMAL (LD50): Acute: 20800 mg/kg [Rabbit].   |  |
| Tetrahydrofurfural alcohol          | 97-99-4    | 5 - 15      | ORAL (LD50): Acute: 1600 mg/kg [Rat].  |  |
| Dipropylene glycol monomethyl ether | 34590-94-8 | 1 - 5       | ORAL (LD50): Acute: 5380 mg/kg [Rat]. 5200 mg/kg [Rat].<br>DERMAL (LD50): Acute: 9510 mg/kg [Rabbit].  | TWA: 100 ppm<br>CEIL: 150 ppm<br>TWA: 600 mg/m <sup>3</sup><br>CEIL: 900 mg/m <sup>3</sup> |

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

|                                      |   |             |   |
|--------------------------------------|---|-------------|---|
| <b>Physical State and Appearance</b> | Liquid. (Fluid liquid.)   |             |   |
| <b>Color</b>                         | Brown. (Dark.)  | <b>Odor</b> | Alcohol like. (Slight.) <b>Taste</b> Not available. |
| <b>Molecular Weight</b>              | Not applicable.   |             |   |
| <b>pH (1% soln/water)</b>            | 7 [Neutral.]  |             |   |
| <b>Boiling Point</b>                 | The lowest known value is 149.5°C (301.1°F) (Ethanol, 2-propoxy-). Weighted average: 198.34°C (389°F)                             |             |   |
| <b>Melting Point</b>                 | May start to solidify at -60°C (-76°F) based on data for: 1,2-Propanediol. Weighted average: -74.26°C (-101.7°F)                  |             |   |
| <b>Critical Temperature</b>          | Not available.  |             |   |
| <b>Specific Gravity</b>              | 1.02 (Water = 1)  |             |   |
| <b>Vapor Pressure</b>                | The highest known value is 0.2 kPa (1.3 mm Hg) (at 20°C) (Ethanol, 2-propoxy-). Weighted average: 0.06 kPa (0.45 mm Hg) (at 20°C) |             |   |
| <b>Vapor Density</b>                 | Greater than air.   |             |   |
| <b>Volatility</b>                    | Not available.  |             |   |
| <b>Odor Threshold</b>                | The lowest known value is 34.6 ppm (Propanol, 1(or 2)-(2-methoxymethylethoxy)-)   |             |   |
| <b>Water/Oil Dist. Coeff.</b>        | The product is equally soluble in octanol and water.  |             |   |
| <b>Ionicity (in Water)</b>           | Not available.  |             |   |
| <b>Dispersion Properties</b>         | See solubility in water, methanol, diethyl ether, n-octanol.  |             |   |
| <b>Solubility</b>                    | Easily soluble in hot water, methanol, diethyl ether.<br>Soluble in cold water, n-octanol.  |             |   |

### Section 4. Fire and Explosion Hazard

|  |  |
|--|--|
| <b>The Product is:</b>   | Non-flammable.   |
| <b>Fire Hazards in Presence of Various Substances</b>          | Not applicable   |
| <b>Fire Fighting Media and Instructions</b>                    | Not applicable.  |
| <b>Special Remarks on Fire Hazards</b>                         | Not available.   |
| <b>Flash Points</b>  | Not applicable.  |
| <b>Flammable Limits</b>  | Not applicable.  |
| <b>Auto-Ignition Temperature</b>                               | Not applicable.  |
| <b>Products of Combustion</b>                                  | These products are carbon oxides (CO, CO <sub>2</sub> ). |
| <b>Explosion hazards in the presence of various substances</b> | Not applicable   |
| <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> | Reactive or incompatible with the following materials: oxidizing materials, reducing materials, organic materials, acids and alkalis.<br>Non-reactive or compatible with the following materials: combustible materials, metals and moisture. |

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|                                       |   |
|---------------------------------------|---|
| <b>Corrosivity</b>                    | Not available.                                      |
| <b>Special Remarks on Reactivity</b>  | Incompatible with chloroformates. (1,2-Propanediol) |
| <b>Special Remarks on Corrosivity</b> | Not available.                                      |

## Section 6. Toxicological Properties

|   |   |
|---|---|
| <b>Routes of Entry</b>                                  | Dermal contact. Eye contact. Inhalation. Ingestion.   |
| <b>Toxicity to Animals</b>                              | Acute oral toxicity (LD50): 1600 mg/kg [Rat]. (2-Furanmethanol, tetrahydro-).<br>Acute dermal toxicity (LD50): 1337 mg/kg [Rabbit]. (Ethanol, 2-propoxy-).<br>Acute toxicity of the vapor (LC50): 1530 mg/l 8 hour/hours [Rabbit]. (Ethanol, 2-propoxy-).   |
| <b>Effects of Acute Exposure</b>                        | Hazardous in case of skin contact (permeator), of ingestion, of inhalation.   |
| <b>Chronic Effects on Humans</b>                        | <b>CARCINOGENIC EFFECTS:</b> Classified 4 (Probably not for humans.) by IARC, None. by OSHA [2-Furanmethanol, tetrahydro-].<br><b>MUTAGENIC EFFECTS:</b> Not available.<br><b>TERATOGENIC EFFECTS:</b> Not available.<br><b>DEVELOPMENTAL TOXICITY:</b> Not available.<br>The substance is toxic to blood, kidneys, liver.<br>Repeated or prolonged exposure to the substance can produce target organs damage. |
| <b>Special Remarks on Toxicity to Animals</b>           | Not available.  |
| <b>Special Remarks on Chronic Effects on Humans</b>     | May contain traces of ethylene oxide . Ethylene oxide has been reported to be a potential carcinogen. (Ethanol, 2-propoxy-)   |
| <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

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| <b>Personal Protection</b>                          | Splash goggles. Synthetic apron. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Impervious gloves.   |
| <b>Personal Protection in Case of a Large Spill</b> | 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.               |
| <b>Engineering Controls</b>                         | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.   |
| <b>Small Spill</b>                                  | 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. |
| <b>Large Spill</b>                                  | 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.  |
| <b>Waste Disposal</b>                               | Waste must be disposed of in accordance with federal, state and local environmental control regulations.   |
| <b>Precautions</b>                                  | 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.                            |
| <b>Storage</b>                                      | Keep container tightly closed. Keep container in a cool, well-ventilated area.   |
| <b>TDG Classification</b>                           | -  |
| <b>PIN</b>  | Not regulated. <b>PG:</b> -  |
| <b>Special Provisions for Transport</b>             | -  |

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|---|--|--|
| <b>Federal and State Regulations</b>                  | Pennsylvania RTK: Propanol, 1(or 2)-(2-methoxymethylethoxy)-; 1,2-Propanediol; 2-Furanmethanol, tetrahydro-; Ethanol, 2-propoxy-; Ethanol, 2-(2-butoxyethoxy)-<br>Massachusetts RTK: 2-Furanmethanol, tetrahydro-<br>New Jersey: Propanol, 1(or 2)-(2-methoxymethylethoxy)-; Ethanol, 2-propoxy-; Ethanol, 2-(2-butoxyethoxy)-<br>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 |  |
| <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 D-2B: Material causing other toxic effects (Toxic).</b> |
|   | <b>HCS (U.S.A.)</b>  | Target organ effects   |
| <b>Hazardous Material Information System (U.S.A.)</b> | <b>Health Hazard</b>   | * 1  |
|   | <b>Fire Hazard</b>   | 0  |
|   | <b>Reactivity</b>  | 0  |
|   | <b>Personal Protection</b>   | H  |
| <b>National Fire Protection Association (U.S.A.)</b>  | <b>Health</b>  | 1  |
|   | <b>Fire Hazard</b>   | 0  |
|   | <b>Reactivity</b>  | 0  |
|   | <b>Specific Hazard</b>   |  |

## 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>           | 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.   |
| <b>Hazardous Skin Contact</b> | Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.  |
| <b>Inhalation</b>             | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.  |
| <b>Hazardous Inhalation</b>   | Not available.   |
| <b>Ingestion</b>              | 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. |
| <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. |

**Preparation Information** Validated by K. William on 8/9/2006.

Verified by K. William.

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