

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **194-450 BROWN COLORANT**

Supplier - Manufacturer **Chemcraft International Inc.,**
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Canada L1A 3Z3

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For Transport Emergency or After Hours

CANUTEC (613) 996-6666

Code 194-450

Synonym BROWN COLORANT

Chemical Name Not applicable.

Chemical Family Azo dye. (Coloring material.)

Chemical Formula Not applicable.

Material Uses Coatings: Manufacture of surface coatings.

Product Identification Number (PIN) 1987 ALCOHOLS N.O.S. (Ethoxypropanol)

Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	Exposure Limits	
			LC ₅₀ /LD ₅₀	TLV/PEL
Propylene glycol monoethyl ether	1569-02-4	30-60	Not available.	Not available.
Propylene glycol	57-55-6	10-30	ORAL (LD50): Acute: 21000 mg/kg [Rat]. DERMAL (LD50): Acute: 20800 mg/kg [Rabbit].	Not available.
1-Propanol-2-ethoxy	52125-53-8	1-5	Not available.	Not available.
Tetrahydrofurfural alcohol	97-99-4	10-30	ORAL (LD50): Acute: 1600 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 Not available. **Odor** Not available. **Taste** Not available.

Molecular Weight Not applicable.

pH (1% soln/water) Neutral.

Boiling Point The lowest known value is 100°C (212°F) (Propanol, 1(or 2)-ethoxy-). Weighted average: 169.84°C (337.7°F)

Melting Point May start to solidify at -60°C (-76°F) based on data for: 1,2-Propanediol.

Critical Temperature Not available.

Specific Gravity Weighted average: 0.97 (Water = 1)

Vapor Pressure The highest known value is 0.01 kPa (0.08 mmHg) (at 20°C) (1,2-Propanediol).

Vapor Density The highest known value is 2.62 (Air = 1) (1,2-Propanediol). Weighted average: 1.87 (Air = 1)

Volatility Not available.

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Odor Threshold	Not available.
Water/Oil Dist. Coeff.	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water, methanol, diethyl ether.
Solubility	Easily soluble in cold water, hot water, methanol. Soluble in diethyl ether.

Section 4. Fire and Explosion Hazard

The Product is:	Flammable.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames, sparks and static discharge.
Fire Fighting Media and Instructions	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.
Special Remarks on Fire Hazards	When heated to decomposition it emits acrid smoke and irritating fumes. (1,2-Propanediol)
Flash Points	The lowest known value is Closed cup: Between 37.8°C (100°F) and 61°C (142°F).. (Tagliabue.). (2-Propanol, 1-ethoxy-)
Flammable Limits	The greatest known range is LOWER: 2.6% UPPER: 12.5% (1,2-Propanediol)
Auto-Ignition Temperature	The lowest known value is 415.56°C (780°F) (1,2-Propanediol).
Products of Combustion	These products are carbon oxides (CO, CO2).
Explosion Hazards in Presence of Various Substances	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.
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	Not available.
Corrosivity	Not available.
Special Remarks on Reactivity	Hygroscopic; keep container tightly closed. Incompatible with chloroformates. (1,2-Propanediol)
Special Remarks on Corrosivity	Not available.

Section 6. Toxicological Properties

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 1600 mg/kg [Rat]. (2-Furanmethanol, tetrahydro-). Acute dermal toxicity (LD50): 20800 mg/kg [Rabbit]. (1,2-Propanediol).
Effects of Acute Exposure	Slightly hazardous in case of ingestion, of inhalation.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 4 (Probably not for human.) by IARC, None. by OSHA [2-Furanmethanol, tetrahydro-]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.
Special Remarks on Toxicity to Animals	Not available.

Special Remarks on Chronic Effects on Humans	Can cause gastrointestinal disturbances. (1,2-Propanediol)
Special Remarks on Other Toxic Effects on Humans	Not available.
Exposure Limits	Not available.

Section 7. Preventive Measures

Personal Protection	Safety glasses. Lab coat. Impervious gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. 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. 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.	
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. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.	
Storage	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).	
TDG Classification	3	
PIN	1987 ALCOHOLS N.O.S. PG: III (Ethoxypropanol)	
Special Provisions for Transport		
Federal and State Regulations	Rhode Island RTK hazardous substances: 1,2-Propanediol Pennsylvania RTK: 1,2-Propanediol Minnesota: 1,2-Propanediol TSCA 8(b) inventory: 1,2-Propanediol	
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.)	Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Hazardous Material Information System (U.S.A.)	Health Hazard	1
	Fire Hazard	2
	Reactivity	0
	Personal Protection	A
National Fire Protection Association (U.S.A.)	Health	1
	Fire Hazard	2
	Reactivity	0
	Specific Hazard	

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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	Wash with soap and water. 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	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.
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 C.M. Kelly on 3/20/2003. Verified by C.M. Kelly. Printed 3/20/2003.
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.