Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **194-262 YELLOW DYE**

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	194-262
Synonym	YELLOW DYE
Chemical Name	Not applicable.
Chemical Family	Pigments. (Coloring material.)
Chemical Formula	Not applicable.
Material Uses	Coatings: Additives for surface coatings
Product Identification Number (PIN)	1993 Flammable Liquid N.O.S.

Section 2. Hazardous Ingredients

			Exposure Limits	
Name	**CAS #**	**% by Weight**	**LC_{50}/LD_{50}**	**TLV/PEL**
Propylene glycol monomethyl ether	107-98-2	30-60	ORAL (LD50): Acute: 5660 mg/kg [Rat.]. DERMAL (LD50): Acute: 13000 mg/kg [Rabbit.].	**ACGIH (Canada).** TWA: 100 ppm STEL: 150 ppm **OSHA (Canada).** TWA: 100 ppm STEL: 150 ppm TWA: 540 mg/m^3 STEL: 360 mg/m^3

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. (Fluid liquid.)
Color	Yellow. (Dark.) **Odor** Alcohol like. (Slight.) **Taste** Not available.
Molecular Weight	Not applicable.
pH (1% soln/water)	5 [Acidic.]
Boiling Point	110°C (230°F)
Melting Point	May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -58.46°C (-73.2°F)
Critical Temperature	Not available.
Specific Gravity	1.026 (Water = 1)
Vapor Pressure	The highest known value is 2.3 kPa (17.2 mmHg) (at 20°C) (Water). Weighted average: 1.93 kPa (14.48 mmHg) (at 20°C)
Vapor Density	The highest known value is 3.12 (Air = 1) (2-Propanol, 1-methoxy-). Weighted average: 2.3 (Air = 1)

Continued on Next Page

Volatility	Not available.
Odor Threshold	Not available.
Water/Oil Dist. Coeff.	The product is much more soluble in water.
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. Insoluble in n-octanol.

Section 4. Fire and Explosion Hazard

The Product is:	Flammable.
Fire Hazards in Presence of Various Substances	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	Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and irritating fumes. (2-Propanol, 1-methoxy-)
Flash Points	Closed cup: 43°C (109.4°F). (Tagliabue.)
Flammable Limits	The greatest known range is LOWER: 1.6% UPPER: 13.8% (2-Propanol, 1-methoxy-)
Auto-Ignition Temperature	The lowest known value is 287°C (548.6°F) (2-Propanol, 1-methoxy-).
Products of Combustion	These products are carbon oxides (CO, CO2).
Explosion Hazards in Presence of Various Substances	Highly explosive in presence of open flames, sparks and static discharge.
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	Reactive with oxidizing agents.
Corrosivity	Not available.
Special Remarks on Reactivity	Air sensitive. (2-Propanol, 1-methoxy-)
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): 5660 mg/kg [Rat.]. (2-Propanol, 1-methoxy-). Acute dermal toxicity (LD50): 13000 mg/kg [Rabbit.]. (2-Propanol, 1-methoxy-).
Effects of Acute Exposure	Very hazardous in case of eye contact (irritant). Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator). Inflammation of the eye is characterized by redness, watering, and itching.
Chronic Effects on Humans	**CARCINOGENIC EFFECTS**: Classified 4 (Probably not for human.) by IARC, None. by OSHA [2-Propanol, 1-methoxy-]. **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available. **DEVELOPMENTAL TOXICITY**: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Continued on Next Page

Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Exposure can cause coughing, chest pains, difficulty in breathing. (2-Propanol, 1-methoxy-)
Special Remarks on Other Toxic Effects on Humans	Material is irritating to mucous membranes and upper respiratory tract. (2-Propanol, 1-methoxy-)
Exposure Limits	Not available.

Section 7. Preventive Measures

Personal Protection	Splash goggles. 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. 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. 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. Avoid contact with eyes. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.
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	1993 Flammable Liquid **PG:** III N.O.S.
Special Provisions for Transport	
Federal and State Regulations	Rhode Island RTK hazardous substances: 2-Propanol, 1-methoxy- Pennsylvania RTK: 2-Propanol, 1-methoxy- Florida: 2-Propanol, 1-methoxy- Minnesota: 2-Propanol, 1-methoxy- Massachusetts RTK: 2-Propanol, 1-methoxy- New Jersey: 2-Propanol, 1-methoxy- TSCA 8(b) inventory: 2-Propanol, 1-methoxy- TSCA 8(d) H and S data reporting: 2-Propanol, 1-methoxy-
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).** **HCS (U.S.A.)** Class: Irritating substance. 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**	2
	Fire Hazard	2
	Reactivity	0
	Personal Protection	H
National Fire Protection Association (U.S.A.)	**Health**	2
	Fire Hazard	2
	Reactivity	0
	Specific Hazard	

Continued on Next Page

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 immediately.

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 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. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. 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 9/10/2002.**

Verified by C.M. Kelly.

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