

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **640-220 CHEMLITE SYS B MATTE**

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

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Code 640-220

Synonym CHEMLITE SYS B MATTE

Chemical Name Not applicable.

Chemical Family Synthetic polymer in organic solvent. (Polymer.)

Chemical Formula Not applicable.

Material Uses Coatings: Surface coatings and finishes.

Product Identification Number (PIN) 1263 PAINT

Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	Exposure Limits	
			LC ₅₀ /LD ₅₀	TLV/PEL
Toluene	108-88-3	1-5	ORAL (LD50): Acute: 2600 mg/kg [Rat]. DERMAL (LD50): Acute: 12210 mg/kg [Rabbit].	TWA: 200 CEIL: 300 (ppm) from OSHA (PEL) [United States] TWA: 50 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 100 STEL: 150 (ppm) from NIOSH [United States] [1997] TWA: 100 STEL: 150 (ppm) from OSHA (PEL) [Canada]
Ethyl Acetate	141-78-6	1-5	ORAL (LD50): Acute: 5600 mg/kg [Rat].	TWA: 400 (ppb) from ACGIH (TLV) [United States]
Ethyl 3-ethoxy propionate	763-69-9	5-10	ORAL (LD50): Acute: 5001 mg/kg [Rat]. 4301 mg/kg [Rat]. DERMAL (LD50): Acute: 10000 mg/kg [Rabbit].	Not available.
n-Butyl acetate	123-86-4	30-60	ORAL (LD50): Acute: 14130 mg/kg [Rat]. 7100 mg/kg [Mouse]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].	TWA: 150 STEL: 200 (ppb) from ACGIH (TLV) [United States] [1994]
Xylenes	1330-20-7	10-30	ORAL (LD50): Acute: 4300 mg/kg [Rat].	TWA: 100 (ppm) from ACGIH (TLV) [United States] [1992] TWA: 150 (ppm) from ACGIH (TLV) [United States] STEL: 651 (mg/m ³) from ACGIH (TLV) [United States]

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.

Continued on Next Page

Section 3. Physical Data

Physical State and Appearance	Liquid.
Color	Not available.
Odor	Strong.
Taste	Not available.
Molecular Weight	Not applicable.
pH (1% soln/water)	Neutral.
Boiling Point	The lowest known value is 77°C (170.6°F) (Acetic acid, ethyl ester). Weighted average: 130.17°C (266.3°F)
Melting Point	May start to solidify at -77.9°C (-108.2°F) based on data for: Acetic acid, butyl ester. Weighted average: -82.66°C (-116.8°F)
Critical Temperature	Not available.
Specific Gravity	Weighted average: 0.95 (Water = 1)
Vapor Pressure	The highest known value is 73 mm of Hg (@ 20°C) (Acetic acid, ethyl ester). Weighted average: 10.87 mm of Hg (@ 20°C)
Vapor Density	The highest known value is 5.03 (Air = 1) (Propanoic Acid, 3-Ethoxy, Ethyl Ester). Weighted average: 3.93 (Air = 1)
Volatility	Not available.
Odor Threshold	The highest known value is 3.9 ppm (Acetic acid, ethyl ester) Weighted average: 0.36 ppm
Water/Oil Dist. Coeff.	The product is much more soluble in oil.
Ionicity (in Water)	Not available.
Dispersion Properties	Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether, n-octanol, acetone.
Solubility	Easily soluble in methanol, diethyl ether, acetone. Soluble in n-octanol. Insoluble in cold water, hot water.

Section 4. Fire and Explosion Hazard

The Product is:	Flammable.
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks. Non-flammable in presence of heat, of oxidizing materials, of reducing materials, of combustible materials, of moisture.
Fire Fighting Media and Instructions	Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog.
Special Remarks on Fire Hazards	Vapor may travel considerable distance to source of ignition and flash back. (Acetic acid, butyl ester)
Flash Points	The lowest known value is CLOSED CUP: -4.4°C (24.1°F). (Tagliabue.). OPEN CUP: -3°C (26.6°F). (Cleveland). (Acetic acid, ethyl ester)
Flammable Limits	The greatest known range is LOWER: 2.02% UPPER: 10.7% (Acetic acid, ethyl ester)
Auto-Ignition Temperature	The lowest known value is 377°C (710.6°F) (Propanoic Acid, 3-Ethoxy, Ethyl Ester).
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Highly explosive in presence of open flames and sparks.
Special Remarks on Explosion Hazards	Not available.

Section 5. Reactivity Data

Stability	The product is stable.
Decomposition products	
Conditions of Instability	Not available.
Incompatibility with various substances	Reactive with oxidizing agents, reducing agents, organic materials, alkalis. Slightly reactive to reactive with metals, acids, moisture. Non-reactive with combustible materials.

Continued on Next Page

Corrosivity	Not considered to be corrosive for metals and glass.
Special Remarks on Reactivity	Incompatible with hydrogen fluoride. (Silica gel, pptd., cryst.-free)
Special Remarks on Corrosivity	Not available.

Section 6. Toxicological Properties

Routes of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 2600 mg/kg [Rat.]. (Benzene, methyl-). Acute dermal toxicity (LD50): 5000 mg/kg [Rabbit]. (Acetic acid, butyl ester). Acute toxicity of the vapor (LC50): >1800 ppm 4 hour(s) [Rat.]. (Acetic acid, butyl ester).
Effects of Acute Exposure	Very hazardous in case of skin contact (irritant). Hazardous in case of eye contact (irritant), of ingestion, . Slightly hazardous in case of skin contact (sensitizer), of inhalation (lung irritant). Non-corrosive for skin. Non-permeator by skin.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, None. by NTP, None. by OSHA [Acetic acid, ethyl ester]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC [Propanoic Acid, 3-Ethoxy, Ethyl Ester]. Classified 4 (Probably not for human.) by IARC, None. by NTP [Silica gel, pptd., cryst.-free]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to blood, the nervous system. 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	Prolonged or repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis. Prolonged exposure to high vapour concentration can cause headache, dizziness, nausea and central nervous system depression. High level exposure to Xylene in laboratory animals, often at levels which are toxic to the mother, have affected the development of the fetus. The relevance of this to humans is not known. (Benzene, dimethyl-)
Special Remarks on Other Toxic Effects on Humans	Material is irritating to mucous membranes and upper respiratory tract. (Acetic acid, butyl ester)
Exposure Limits	Benzene, methyl- TWA: 200 CEIL: 300 (ppm) from OSHA (PEL) [United States] TWA: 50 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 100 STEL: 150 (ppm) from NIOSH [United States] [1997] TWA: 100 STEL: 150 (ppm) from OSHA (PEL) [Canada] Acetic Acid, Ethyl Ester TWA: 400 (ppb) from ACGIH (TLV) [United States] Acetic Acid, Butyl Ester TWA: 150 STEL: 200 (ppb) from ACGIH (TLV) [United States] [1994] Benzene, dimethyl- TWA: 100 (ppm) from ACGIH (TLV) [United States] [1992] TWA: 150 (ppm) from ACGIH (TLV) [United States] STEL: 651 (mg/m ³) from ACGIH (TLV) [United States] Silica gel, pptd., cryst.-free TWA: 10 (ppm)
	Consult local authorities for acceptable exposure limits.

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 threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Continued on Next Page

Large Spill	Toxic flammable liquid, insoluble or very slightly soluble in water. 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 get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	
Waste Disposal	Not available.	
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Wear suitable protective clothing. 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. Keep away from incompatibles such as oxidizing agents, reducing agents, organic materials, alkalis.	
Storage	Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).	
TDG Classification	Class 3: Flammable liquid.	
PIN	1263 PAINT	PG: II
Special Provisions for Transport	089 International consignments to be packaged in accordance with ICAO or IMDG. 109 The consignor must determine legal limit. (Benzene, dimethyl-)	
Federal and State Regulations	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Benzene, methyl-; Benzene, dimethyl- TSCA 8(b) inventory: Acetic acid, ethyl ester; Benzene, methyl-; Acetic acid, butyl ester; Benzene, dimethyl- SARA 302/304/311/312 extremely hazardous substances: Benzene, dimethyl- SARA 313 toxic chemical notification and release reporting: Benzene, methyl-; Benzene, dimethyl- CERCLA: Hazardous substances.: Acetic acid, ethyl ester; Benzene, methyl-; Acetic acid, butyl ester; Benzene, dimethyl-;	
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
Other Classifications	WHMIS (Canada)	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
	HCS (U.S.A.)	Class: Flammable liquid having a flash point lower than 37.8°C (100°F). Class: Toxic. Class: Irritating substance. Class: Target organ effects.
Hazardous Material Information System (U.S.A.)	Health Hazard	* 2
	Fire Hazard	3
	Reactivity	0
	Personal Protection	h
National Fire Protection Association (U.S.A.)	Health	1
	Fire Hazard	3
	Reactivity	0
	Specific Hazard	

Section 8. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Continued on Next Page

Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate 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	No additional remark. - Please note that this product must be mixed with a coreactant prior to application. The coreactant will contain isocyanate(s) as a component of the formulation. Isocyanates have been prescribed as a designated substance (R.R.O. 1990, Reg. 182, s. 2) by the Government of Ontario under the Occupational Health and Safety Act (the Act). The Act places duties on employers to take all precautions reasonable in the circumstances to protect the health of workers. Please read the Material Safety Data Sheet for the appropriate coreactant before use. - Please be aware that the regulations may require you to control exposure limits by the use of personal protective equipment. In this case, the regulations clearly state that the use of charcoal filter respirators are not an effective control for isocyanates. When respiratory protection is required fresh air respirators or self-contained breathing apparatus, as specified in the Respirator Code, must be used. - If you have further questions regarding these products or the regulations, or require more detailed information, you may contact us or your local branch of the Ministry of Labour.
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 A McLeod on 2/14/2001. Verified by A McLeod. Printed 9/18/2002.
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

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