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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Code: MC422L
Product Trade Name: 8420 Satin Urethane Varnish Low VOC
Product Class / Intended End Use: Architectural Coating
Emergency Telephone Numbers: For emergency health, safety and environmental information call 416-252-5676 (Monday to Friday 9am-4pm est/edt)

For Emergency Transportation Information call CANUTEC at 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Highly Flammable Liquid and Vapour	3
Specific Target Organ Toxicity, Single Exposure (CNS)	3
Aspiration Toxicity	1
Acute Oral Toxicity	4
Reproductive Toxicity	1B
Signal word:	Danger

Hazard Statements:

- Highly flammable liquid and vapour
- Harmful if swallowed
- May cause drowsiness and dizziness
- May be fatal if swallowed and enters airways
- Harmful in contact with skin
- May damage fertility or the unborn child

Precautionary Statements:

- Do not handle until all safety precautions have been read and understood
- Keep away from heat / sparks / open flames / hot surfaces. NO SMOKING
- Keep containers tightly closed
- Ground/bond container and receiving equipment
- Use explosion proof electrical/ventilation/lighting/equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Avoid breathing mist or vapours
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- If medical advice is needed, have product container or label at hand

Other Hazards Which do not Result in Classification:

- Ingestion may cause irritation of the mouth, throat and stomach
- May cause irritation to the nose, throat and upper respiratory tract
- Contact with eyes may cause irritation
- May cause mild skin irritation
- May cause long lasting harmful effects to aquatic life

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Hazard Pictograms:



SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT RANGE %
1-Dimethylethyl ester	540-88-5	15 - 25
Stoddard Solvent	8052-41-3	15 - 25
Cyclic dimethylsiloxane tetramer	556-67-2	5 - 10

N/A = Not Available N/E = Not Established

SECTION 4: FIRST-AID MEASURES

- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Get medical attention if you feel unwell.
- Skin Contact:** Take off contaminated clothing. Rinse skin with soap and water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical attention.
- Eye Contact:** Immediately flush eyes with gentle flowing water for 10-15 minutes. Remove contact lenses if present and easy to do. Get medical attention.
- Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Call a poison centre or doctor/physician if you feel unwell.

Most Important Symptoms and Effects (both acute and delayed):

- Breathing difficulties. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
- Shortness of breath
- Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
- May cause headache, nausea, dizziness and other symptoms of central nervous system depression.
- May have laxative effects.
- Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
- Direct skin contact may cause slight or mild, transient irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties.
- Inhalation of extremely high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Treat symptomatically. This product is a CNS depressant. Aspiration hazard.

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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water fog, alcohol-resistant foam, dry chemical or CO ²
Unsuitable Extinguishing Media:	Do not use a solid water stream as it may scatter and spread fire.
Specific Hazards Arising from the Substance or Mixture:	<p>Vapours may form explosive mixtures with air. Material will float and may ignite on surface of water. Fire may produce irritating, corrosive and/or toxic gases. To reduce potential for static discharge, use proper bonding and grounding procedures. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Vapour can travel considerable distance and flashback to a source of ignition. Vapours are heavier than air and collect in confined and low-lying areas.</p> <p>Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Oxides of carbon. Thermal decomposition can lead to release of irritating gases and vapours.</p>
Special Protective Equipment and Precautions for Fire Fighters:	Wear self-contained breathing (SCBA) apparatus and full firefighting protective clothing. Do not use solid water stream as it may scatter and spread the fire.
Special Fire-Fighting Procedures:	Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Ventilate the contaminated area. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the MSDS. Avoid inhalation of vapours or mists. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained.
Environmental Precautions:	Try to prevent material from entering drains or water area.
Methods and Materials for Containment and Clean Up:	Ventilate the contaminated area. Eliminate all sources of ignition. Wear appropriate protective equipment and clothing during clean-up. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Take precautionary measures against static discharge. Use only non-sparking tools. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. For waste disposal, see section 13 of the MSDS. Clean surface thoroughly to remove residual contamination.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:	<ul style="list-style-type: none">- Wear personal protective equipment- Ensure adequate ventilation- Use explosion-proof electrical/ventilating/lighting/equipment- Keep away from heat and open flames. - No smoking- Take precautionary measures against static discharges- Avoid contact with skin, eyes and clothing- Avoid ingestion and inhalation of mist or vapours- Use only outdoors or in a well-ventilated area- Use only non-sparking tools- Keep away from oxidizing agents- Keep away from incompatibles.- Label containers appropriately- Wash thoroughly after handling- Keep containers closed when not in use
Conditions for Safe Storage:	<ul style="list-style-type: none">- Keep containers tightly closed in a dry, cool and well-ventilated place- Keep away from heat and sources of ignition. No smoking.- Flammables area- Store away from incompatibles and out of direct sunlight- Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel- Inspect periodically for damage or leaks
Incompatibles:	Strong oxidizers. Acetic acid.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
1-Dimethylethyl ester	200	N/A	200	N/A
Stoddard Solvent	100	N/A	500	N/A
Cyclic dimethylsiloxane tetramer	<i>This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.</i>			
N/A = Not Available N/E = Not Established				

- Control Parameters:** No TLV data available on product.
- Appropriate Engineering Controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
- Personal Protective Equipment**
- Respiratory Protection:** If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapour cartridge and dust/mist filter.
- Eye/Face Protection:** Use safety glasses, goggles or full face shield is recommended. Eye wash facilities and emergency shower must be available when handling this product.
- Skin Protection:** Use chemically impervious nitrile or neoprene gloves. Wear long sleeved protective clothing. When required, wear impervious rubber apron. The selection of personal protective equipment and clothing varies, depending upon conditions of use.
- General Hygiene Considerations:** Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

% Volatiles by Weight:	56 - 57
Auto Ignition Temperature:	Data not Available
Boiling Point:	98° C / 208.4° F
Decomposition Temperature:	Data not Available
Density / Specific Gravity:	1.1 – 1.3
Explosive Limit:	Data not Available
Flammability (solid, gas):	Flammable
Flash Point (Setaflash Closed Cup):	15 °C / 59 °F
Freezing Point:	Data not Available
Melting Point:	Data not Available
Odour Threshold:	Data not Available
Odour:	Sharp Sweet
Partition Coefficient:	Data not Available
pH:	Not Applicable
Physical State/Appearance:	Clear Viscous Liquid
Relative Evaporation Rate (Butylacetate=1)	Data not Available
Solubility in Water:	Nil
Specific Gravity:	0.85 – 0.95
Vapour Density:	Data not Available
Vapour Pressure:	Data not Available
Viscosity:	70 - 90 cps

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Stable at normal conditions. Instability caused by elevated temperatures.
Possibility of Hazardous Reactions:	Vapours may form explosive mixture with air
Conditions to Avoid:	Avoid ignition sources, heat, sparks, open flame, direct sunlight and extremely high or low temperatures. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid exposure to moist air or water.
Incompatibles:	Strong oxidizers.
Hazardous Decomposition Products:	CO, CO ₂ , hydrocarbons, Silicon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	Mg/l	Animal	Route
1-Dimethylethyl ester	4100 >2000	Rat Rabbit	Oral Dermal	2.23	Rat	Inhalation, 4h
Stoddard Solvent	>5000 >3000	Rat Rabbit	Oral Dermal	>5.5	Rat	Inhalation, 4h
Cyclic dimethylsiloxane tetramer	1540	Rat	Oral	36 g/m ³	Rat	Inhalation, 4h

Acute Toxicity:	No test data on mixture.
No Test Data for the Mixture On:	Skin corrosion/irritation, eye damage/irritation, skin sensitization, respiratory sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT- single exposure, STOT- repeated exposure, aspiration.
Likely Routes of Exposure:	Inhalation, eye contact, skin contact, ingestion.
Symptoms/Injuries after Inhalation:	May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. Inhalation of extremely high concentrations may cause dizziness, disorientation, inco-ordination, narcosis, nausea or narcotic effects.
Symptoms/Injuries after Eye Contact:	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Symptoms/Injuries after Skin Contact:	Direct skin contact may cause slight or mild, transient irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/Injuries after Ingestion:	Harmful if swallowed, symptoms include gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal
Specific Target Organ Effects:	Specific target organ toxicity - single exposure Category 3. May cause drowsiness and dizziness.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic to aquatic life with long lasting effects\
VOC (g/L):	298
Persistence and Degradability:	Not readily biodegradable
Bio-accumulative Potential:	No test data on mixture
Mobility in Soil:	This material has low solubility and floats, and is expected to migrate from water to the land.
Other Adverse Effects:	None known

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SECTION 13: DISPOSAL CONSIDERATIONS

- Handling for Disposal:** Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal:** Dispose of in accordance with federal, provincial/state and local hazardous waste laws. Do not discharge into sewage or municipal water.
- RCRA:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

DO NOT INCINERATE CLOSED CONTAINERS.

SECTION 14: TRANSPORTATION INFORMATION

UN Number:	1263
UN Proper Shipping Name:	Paint
Transport Hazard Class:	3
Packing Group:	III
Environmental Hazards:	Information not available.
Special Precautions for User:	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame. Avoid static electricity.
Transport in Bulk:	Information not available.

SECTION 15: REGULATORY INFORMATION

- Canada:** All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.
- USA:**
- TSCA:** All components of this material are on the US TSCA inventory or are exempt.
 - OSHA:** This material is classified as hazardous under OSHA regulation (29CFR 1910.1200).
 - CERCLA:** Reportable quantities (RQ) (40 CFR 117.302). Data not Available.
 - SARA TITLE 111:** Sec 302, extremely hazardous substances, 40 CFR 355 - Data not available
 - SARA TITLE 111:** Sec 313, toxic chemical notification, 40 CFR 372 - Data not Available

SECTION 16: OTHER INFORMATION

HMIS:	Health 2	Flammability 3	Reactive 0
NFPA:	Health 2	Flammability 3	Instability 1

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Revision Date: February 8, 2017

DISCLAIMER

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END OF SAFETY DATA SHEET