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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Code: MC414U
Product Trade Name: 1150 Satin Vinyl
Product Class / Intended End Use: Consumer 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 1-888-CAN-UTEC (226-8832) or 613-996-6666 or *666 from cell phone.

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Acute Toxicity - Oral	4
Reproductive Toxicity	2
Specific Target Organ Toxicity – Single Exposure (CNS)	3
Specific Target Organ Toxicity – Repeated Exposure (Kidney, Liver)	2
Signal word:	Warning

Hazard Pictograms:



Hazard Statement(s):

- Harmful if swallowed
- Suspected of damaging the unborn child
- May cause drowsiness or dizziness
- May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s) Prevention:

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area

Precautionary Statement(s) Response:

- **IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- Get medical advice/attention if you feel unwell

Precautionary Statement(s) Storage:

- Store in a well-ventilated place. Keep container tightly closed
- Store locked up

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Precautionary Statement(s) Disposal:

- Dispose of contents/container to an approved waste disposal plant

Other Hazards not Otherwise Classified:

- May cause eye, skin and respiratory tract irritation

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	EINECS #	WT %
1,2-Ethanediol	107-21-1	203-473-3	1.97

SECTION 4: FIRST-AID MEASURES

- Ingestion:** Call a physician or poison control centre immediately. Induce vomiting ONLY under the direct supervision of qualified medical personnel or a poison control centre. Never give anything by mouth to an unconscious person.
- Eye/Face Contact:** Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses if worn, and continue flushing for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.
- Hand/Skin Contact:** Immediately flush with plenty of water, while removing contaminated clothing. If irritation persists, seek prompt medical attention. Take off contaminated clothing and wash before reuse.
- Inhalation:** Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

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

- Harmful if swallowed.
- May cause damage to the kidneys if swallowed.
- May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
- May cause slight eye and skin irritation. Symptoms include: Redness, swelling, itching and dryness.
- Suspected of damaging the unborn child.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Immediate medical attention is required. May be harmful or fatal if swallowed.
- Use of ethanol may be helpful to counter the toxic effects of ethylene glycol by interfering with the absorption rate in the stomach and intestine. Onset of symptoms may be delayed for 18 to 24 hours after ingestion. Symptoms may be delayed.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable Extinguishing Media:** Do not use solid water stream as it may scatter and spread fire.
- Specific Hazards Arising from the Substance or Mixture:** Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.
- Special Protective Equipment and Precautions for Fire Fighters:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.
- Hazardous Combustion Products:** Carbon oxides, formaldehyde and other irritating fumes and smoke.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
Environmental Precautions:	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Discharge into the environment must be avoided.
Methods and Materials for Containment and Clean Up:	Ventilate the area. Stop spill or leak at source if safely possible. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. This material is a harmful liquid. Wear protective gloves/clothing and eye/face protection. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Use with adequate ventilation. Do not ingest. Do not breathe mist or vapor. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from extreme heat and flame. Keep away from acids and other incompatibles. Use caution when opening cap. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
Conditions for Safe Storage:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.
Incompatibles:	Alkalies. Strong oxidizing agents. Strong acids.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
1,2-Ethanediol	100 mg/m ³	N/A	50	N/A
<i>N/A = Not Available N/E = Not Established</i>				

Appropriate Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/Face Protection:	Chemical goggles or safety glasses with side shields are recommended when there is a potential for splashing.
Skin/Body Protection:	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory Protection:	Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi-purpose combination respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
General Hygiene Considerations:	Do not breathe mist or vapor. When using do not eat or drink and do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

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SECTION 9: PHYSICAL PROPERTIES

% Volatiles by Weight:	46.61
Auto Ignition Temperature:	Data not Available
Boiling Point:	>100 °C / >212 °F
Colour:	White
Decomposition Temperature:	Data not Available
Explosive Limit:	Data not Available
Flammability (solid, gas):	Non Flammable
Flash Point (closed cup):	Not Applicable
Freezing Point:	<0 °C / <32 °F
Melting Point:	Data not Available
Odour Threshold:	Data not Available
Odour:	Slight Ammonia
Partition Coefficient:	Data not Available
pH:	8.5 – 8.5
Physical State	Liquid
Relative Evaporation Rate (N-butyl Acetate=1)	Data not Available
Solubility in Water:	Miscible
Specific Gravity (g/L):	1.33
Vapour Density:	Data not Available
Vapour Pressure:	Data not Available
Viscosity:	Fluid

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 condition of usage.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	Avoid excessive heat, sparks and open flame. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
Incompatibles:	Strong oxidizing agents, Strong acids, Strong bases, Aldehydes.
Hazardous Decomposition Products:	None known, refer to hazardous combustion products in Section 5.

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	LD 50			LC 50		
Name	mg/kg	Animal	Route	ppm	Animal	Route
1,2-Ethanediol	4000 9530	Rat Rabbit	Oral Dermal	4300	Rat	Inhalation, 4h
<i>N/A = Not Available N/E = Not Established</i>						

Likely Routes of Exposure:	Inhalation, ingestion, eyes, skin, skin absorption.
Symptoms/Injuries after Ingestion:	Harmful or fatal if swallowed. Human poison by ingestion (lethal dose of Ethylene glycol for humans reported to be 100 mL). Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Initially, the central nervous system is stimulated, followed by depression. Could cause cyanosis (bluish discoloration of the skin due to deficient oxygenation of the blood). May potentially result in lethal kidney damage. Could also cause convulsions, coma, respiratory arrest and death.
Symptoms/Injuries after Inhalation:	If mists are inhaled, may cause tearing, general anesthesia, headache, coughing, respiratory stimulation, nausea, vomiting, pulmonary, kidney and liver damage.
Symptoms/Injuries after Eye Exposure:	May cause mild eye irritation. Symptoms may include inflammation and tearing.
Symptoms/Injuries after Skin Contact:	May cause mild skin irritation. Product may be absorbed and cause symptoms similar to those listed for ingestion.
Potential Chronic Health Effects:	Prolonged or repeated ingestion may cause bladder or kidney stones.
Reproductive Effects & Teratogenicity:	Suspected of damaging the unborn child.
Specific Target Organ Effects:	Eyes, skin, respiratory system, central nervous system, liver and kidneys. Specific target organ toxicity, single exposure-Category 2 Specific Target Organ Toxicity, Single Exposure - Category 3 (CNS) May cause damage to the kidneys if swallowed. May cause drowsiness or dizziness.
Medical Conditions Aggravated by Overexposure:	Pre-existing skin or eye disorders, and impaired liver or kidney functions.
Other Important Toxicological Hazards:	CNS depression may result from extreme exposures. Possible reproductive hazard.

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.
VOC (g/L):	114
Persistence and Degradability:	No test data on mixture.
Bio-accumulative Potential:	No test data on mixture.
Mobility in Soil:	No test data on mixture.
Other Adverse Effects:	None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

- Handling of 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; do not incinerate closed containers.
- 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.

SECTION 14: TRANSPORTATION INFORMATION

UN Number:	Not Regulated
UN Proper Shipping Name:	Not Regulated
Transport Hazard Class:	Not Regulated
Packing Group:	Not Applicable
Environmental Hazards:	Toxic to aquatic life. Keep away from heat and flame.
Special Precautions for User:	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame.
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 0	Reactivity 0
NFPA:	Health 2	Flammability 0	Instability Hazard 0

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DISCLAIMER

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END OF SAFETY DATA SHEET