Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing
	Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).	

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	**Topcoat PU White HG (M47-1001)**
Supplier	Antoni Coatings Inc. 2910 Marleau Avenue P.O. Box 1236 Cornwall, Ontario K6H 5V3
Synonym	Not available.
Chemical Name	Not applicable.
Chemical Family	Not applicable.
Chemical Formula	Not applicable.
Manufacturer	Milesi S.P.A. Via Varese, 2 20010 Bareggio Milano, Italy
Material Uses	Not available.

Code	LHR110
CAS #	Mixture.
DSL	CEPA DSL: Ethyl benzene; Glycol Ether PM Acetate; Xylene
CI#	Not applicable.
Validation Date	**5/22/2007**
Print Date	5/22/2007
In Case of Emergency	Canutec: (613) 996-6666

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC_{50}/LD_{50}
1) Ethyl benzene	100-41-4	2.5-10	TWA: 100 (ppm) from OSHA (PEL) [United States] TWA: 100 STEL: 125 (ppb) from ACGIH (TLV) [United States] TWA: 434 STEL: 543 (ppm) from ACGIH (TLV) [United States] TWA: 100 STEL: 125 (ppm) from NIOSH	ORAL (LD50): Acute: 3500 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].
2) Glycol Ether PM Acetate	108-65-6	<=2.5	TWA: 100 (ppm) from AIHA	ORAL (LD50): Acute: 8532 mg/kg [Rat].
3) Xylene	1330-20-7	10-25	TWA: 100 (ppm) from OSHA (PEL) [United States] TWA: 100 STEL: 150 (ppb) from ACGIH (TLV) [United States] TWA: 434 STEL: 651	ORAL (LD50): Acute: 4300 mg/kg [Rat]. DERMAL (LD50): Acute: 3950 mg/kg [Rabbit].

Continued on Next Page

			(ppm) from ACGIH (TLV) [United States] TWA: 100 STEL: 150 (ppm) from NIOSH	

Section 3. Hazards Identification

Potential Acute Health Effects	Very hazardous in case of skin contact (irritant). Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion.
Potential Chronic Health Effects	**CARCINOGENIC EFFECTS**: Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Xylene]. **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available. **DEVELOPMENTAL TOXICITY**: Not available. The substance is toxic to blood, kidneys, the nervous system, liver, gastrointestinal tract, upper respiratory tract, eyes. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Section 5. Fire Fighting Measures

Products of Combustion	
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. 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. (Xylene)
Special Remarks on Explosion Hazards	Not available. Not available. Flammable in presence of open flames and sparks.

Continued on Next Page

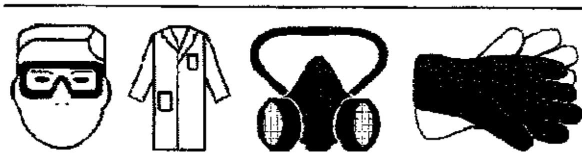
Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Flammable liquid. 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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
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.

Section 7. Handling and Storage

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. 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.
Incompatibility	Reactive with oxidizing agents. Slightly reactive to reactive with reducing agents, organic materials, metals, acids, alkalis. Non-reactive with moisture.
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).

Section 8. Exposure Controls/Personal Protection

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.
Personal Protection	
Eyes	Splash goggles.
Body	Lab coat.
Respiratory	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves.
Protective Clothing (Pictograms)	
Exposure Limits	**Glycol Ether PM Acetate** TWA: 100 (ppm) from AIHA **Xylene** TWA: 100 (ppm) from OSHA (PEL) [United States] TWA: 100 STEL: 150 (ppb) from ACGIH (TLV) [United States] TWA: 434 STEL: 651 (ppm) from ACGIH (TLV) [United States] TWA: 100 STEL: 150 (ppm) from NIOSH Consult local authorities for acceptable exposure limits.

Continued on Next Page

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.
Molecular Weight	Not applicable.
pH (1% Soln/Water)	Not available.

Odor	Not available.
Taste	Not available.
Color	Not available.

Boiling/Condensation Point	124°C (255.2°F)
Melting/Freezing Point	Not available.
Critical Temperature	Not available.
Instability Temperature	Not available.
Specific Gravity	1.35
Vapor Pressure	The highest known value is 0.8 kPa (@ 20°C) (Xylene). Weighted average: 0.76 kPa (@ 20°C)
Vapor Density	The highest known value is 4.6 (Air = 1) (Glycol Ether PM Acetate). Weighted average: 3.81 (Air = 1)
Volatility	27+-5% (v/v).
Evaporation Rate	The highest known value is 0.7 (Xylene) Weighted average: 0.66compared to Butyl acetate.
Odor Threshold	The highest known value is 0.3 ppm (Xylene)
Viscosity	Not available.
$LogK_{ow}$	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water, diethyl ether.
Solubility	Soluble in diethyl ether. Partially soluble in cold water.
The Product is:	Flammable.
Auto-ignition Temperature	The lowest known value is 354°C (669.2°F) (Glycol Ether PM Acetate).
Flash Points	The lowest known value is CLOSED CUP: 26°C (78.8°F). (Setaflash.). OPEN CUP: 37.8°C (100°F). (Cleveland). (Xylene)
Flammable Limits	The greatest known range is LOWER: 1.3% UPPER: 13.1% (Glycol Ether PM Acetate)
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks, of heat, of combustible materials. Slightly flammable to flammable in presence of oxidizing materials, of reducing materials.
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.

Continued on Next Page

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with oxidizing agents. Slightly reactive to reactive with reducing agents, organic materials, metals, acids, alkalis. Non-reactive with moisture.
Corrosivity	Non-corrosive in presence of glass.
Hazardous Decomposition Products	
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.

Section 11. Toxicological Information

Routes of Entry	Eye contact. Inhalation.
Toxicity to Animals	Acute oral toxicity (LD50): 4300 mg/kg [Rat]. (Xylene). Acute dermal toxicity (LD50): 3950 mg/kg [Rabbit]. (Xylene).
Acute Effects on Humans	
Eyes	Hazardous in case of eye contact (irritant).
Skin	Sensitization of the product: Not available. Very hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (permeator). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Inhalation	Hazardous in case of inhalation.
Ingestion	Slightly hazardous in case of ingestion.
Chronic Effects on Humans	**CARCINOGENIC EFFECTS**: Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Xylene]. **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available. **DEVELOPMENTAL TOXICITY**: Not available. The substance is toxic to blood, kidneys, the nervous system, liver, gastrointestinal tract, upper respiratory tract, eyes. 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	Detected in maternal milk in human. Passes through the placental barrier in animal. Embryotoxic and/or foetotoxic in animal. (Xylene)
Special Remarks on Other Toxic Effects on Humans	Material is irritating to mucous membranes and upper respiratory tract. (Xylene)

Continued on Next Page

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	
Toxicity of the Products of Biodegradation	
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.

Section 14. Transport Information

TDG Classification	Class 3: Flammable liquid.
PIN	Shipping name: Paint UN1263 PG: II
Maritime Transportation	Not available.
Special Provisions for Transport	Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification)	Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).	
Regulatory Lists	CEPA DSL: Ethyl benzene; Glycol Ether PM Acetate; Xylene Canadian NPRI: Ethyl benzene; Xylene	
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
Other Classifications	**HCS (U.S.A.)**	Class: Flammable liquid having a flash point lower than 37.8°C (100°F). Class: Target organ effects.
	USA Regulatory Lists	Pennsylvania RTK: Xylene Florida: Xylene Minnesota: Xylene Michigan critical material: Xylene Massachusetts RTK: Xylene New Jersey: Xylene TSCA 8(a) PAIR: Glycol Ether PM Acetate; Xylene SARA 313 toxic chemical notification and release reporting: Xylene 17.5% CERCLA: Hazardous substances: Xylene: 100 lbs. (45.36 kg);

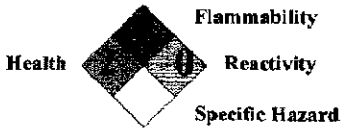
Continued on Next Page

DSD (EEC)	R10- Flammable. R20/21- Harmful by inhalation and in contact with skin. R36/38- Irritating to eyes and skin.
International Regulations Lists	No products were found.

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		3
Reactivity		0
Personal Protection		h

National Fire Protection Association (U.S.A.)



DOT (U.S.A) (Pictograms)

DSD (Europe) (Pictograms)

ADR (Europe) (Pictograms)

Section 16. Other information

References	Not available.
Other Special Considerations	Not available.

Validated by Janet Sills on 5/22/2007.

Verified by Carole Lamothe.

Printed 5/22/2007.

Information Contact
Antoni Coatings Inc.
2910 Marleau Avenue
P.O. Box 1236
Cornwall, Ontario
K6H 5V3