



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

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|--------------------------|--|----------------------|--|
| Product Name/ Trade name | Topcoat PU Semi Gloss (M57-40) | Code | LGA21 |
| Supplier | Antoni Coatings Inc. 2910 Marleau Avenue P.O. Box 1236 Cornwall, ON K6H 5V3 (613) 936-9050 | CAS # | Mixture. |
| Synonym | Not available. | DSL | CEPA DSL: Toluene; Glycol Ether PM Acetate; Xylene |
| Chemical Name | Not applicable. | CI# | Not applicable. |
| Chemical Family | Not applicable. | Validation Date | 2/8/2008 |
| Chemical Formula | Not applicable. | Print Date | 3/25/2008 |
| Manufacturer | Milesi S.P.A. Via Varese, 2 20010 Bareggio Milano, Italy | In Case of Emergency | Canutec: (613) 996-6666 |
| Material Uses | Not available. | | |

Section 2. Composition and Information on Ingredients

| Name | CAS # | % by Weight | Exposure Limits | LC ₅₀ /LD ₅₀ |
|----------------------------|-----------|-------------|---|--|
| 1) Toluene | 108-88-3 | 2.5-10 | TWA: 200 (ppm) from OSHA (PEL) [United States] TWA: 50 (ppb) from ACGIH (TLV) [United States] TWA: 188 (ppm) from ACGIH TWA: 100 STEL: 150 (ppm) from NIOSH | ORAL (LD50): Acute: 2600 mg/kg [Rat]. DERMAL (LD50): Acute: 12210 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 | 25-50 | 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 | ORAL (LD50): Acute: 4300 mg/kg [Rat]. DERMAL (LD50): Acute: 3950 mg/kg [Rabbit]. |

Section 3. Hazards Identification

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| Potential Acute Health Effects | Very hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Hazardous in case of skin contact (permeator), of ingestion. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. |
| Potential Chronic Health Effects | <p>CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Toluene]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Xylene].</p> <p>MUTAGENIC EFFECTS: Not available.</p> <p>TERATOGENIC EFFECTS: Not available.</p> <p>DEVELOPMENTAL TOXICITY: Not available.</p> <p>The substance is toxic to blood, kidneys, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, eyes.</p> <p>Repeated or prolonged exposure to the substance can produce target organs damage.</p> |

Section 4. First Aid Measures

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| 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 immediately. |
| 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. 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

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| 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. |
| 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. Highly flammable in presence of open flames and sparks. |

Section 6. Accidental Release Measures

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| Small Spill and Leak | Absorb with an inert material and put the spilled material in an appropriate waste disposal. |
| 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

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| 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. 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, metals, alkalis. |
| Incompatibility | Reactive with oxidizing agents, reducing agents, organic materials, metals, alkalis. Slightly reactive to reactive with acids. 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

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| 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. |
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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****Toluene**

TWA: 200 (ppm) from OSHA (PEL) [United States]

TWA: 50 (ppb) from ACGIH (TLV) [United States]

TWA: 188 (ppm) from ACGIH

TWA: 100 STEL: 150 (ppm) from NIOSH

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.

Section 9. Physical and Chemical Properties

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| Physical State and Appearance | Liquid. | Odor | Not available. |
| Molecular Weight | Not applicable. | Taste | Not available. |
| pH (1% Soln/Water) | Not available. | Color | Not available. |
| Boiling/Condensation Point | The lowest known value is 110.6°C (231.1°F) (Toluene). Weighted average: 135.95°C (276.7°F) | | |
| Melting/Freezing Point | May start to solidify at -94.5°C (-138.1°F) based on data for: Toluene. | | |
| Critical Temperature | Not available. | | |

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| Instability Temperature | Not available. |
| Specific Gravity | 0.992 |
| Vapor Pressure | The highest known value is 7 kPa (@ 20°C) (Toluene). Weighted average: 1.54 kPa (@ 20°C) |
| Vapor Density | The highest known value is 4.6 (Air = 1) (Glycol Ether PM Acetate). Weighted average: 3.74 (Air = 1) |
| Volatility | 54+-5% (v/v). |
| Evaporation Rate | The highest known value is 2.24 (Toluene) Weighted average: 0.85 compared to Butyl acetate. |
| Odor Threshold | The highest known value is 1.6 ppm (Toluene) Weighted average: 0.49 ppm |
| Viscosity | Not available. |
| LogK _{ow} | The product is more soluble in oil. |
| Ionicity (in Water) | Not available. |
| Dispersion Properties | See solubility in water, methanol, diethyl ether, n-octanol. |
| Solubility | Easily soluble in methanol. Soluble in diethyl ether, n-octanol. Partially soluble in cold water. Very slightly soluble in hot 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: 7°C (44.6°F). (Tagliabue.). OPEN CUP: 12.78°C (55°F). (Cleveland). (Toluene) |
| Flammable Limits | The greatest known range is LOWER: 1.3% UPPER: 13.1% (Glycol Ether PM Acetate) |
| Fire Hazards in Presence of Various Substances | Highly flammable in presence of open flames and sparks, of heat, of combustible materials. Flammable in presence of oxidizing materials, of reducing materials. Non-flammable in presence of moisture. |
| 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. |

Section 10. Stability and Reactivity Data

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| Stability | The product is stable. |
| Conditions of Instability | Not available. |
| Incompatibility with Various Substances | Reactive with oxidizing agents, reducing agents, organic materials, metals, alkalis. Slightly reactive to reactive with acids. 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

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| Routes of Entry | Dermal contact. Eye contact. Inhalation. Ingestion. |
| Toxicity to Animals | Acute oral toxicity (LD50): 2600 mg/kg [Rat]. (Toluene). Acute dermal toxicity (LD50): 3950 mg/kg [Rabbit]. (Xylene). |
| Acute Effects on Humans | <p><i>Eyes</i> Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.</p> <p><i>Skin</i> Sensitization of the product: Not available. Very hazardous in case of skin contact (irritant). Hazardous in case of skin contact (permeator). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p><i>Inhalation</i> Very hazardous in case of inhalation.</p> <p><i>Ingestion</i> Hazardous in case of ingestion.</p> |
| Chronic Effects on Humans | <p>CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Toluene]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Xylene].</p> <p>MUTAGENIC EFFECTS: Not available.</p> <p>TERATOGENIC EFFECTS: Not available.</p> <p>DEVELOPMENTAL TOXICITY: Not available.</p> <p>The substance is toxic to blood, kidneys, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage.</p> |
| 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) |

Section 12. Ecological Information

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| 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

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|-------------------|--|
| 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 UNNA: 1263 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: Toluene; Glycol Ether PM Acetate; Xylene

Canadian NPRI: Toluene; 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: Irritating substance.
Class: Target organ effects.

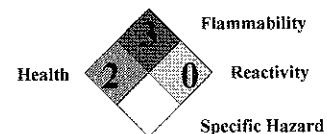
USA Regulatory Lists California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Toluene
Pennsylvania RTK: Toluene; Xylene
Florida: Toluene; Xylene
Minnesota: Toluene; Xylene
Michigan critical material: Toluene; Xylene
Massachusetts RTK: Toluene; Xylene
New Jersey: Toluene; Xylene
TSCA 8(a) PAIR: Toluene; Glycol Ether PM Acetate; Xylene
SARA 313 toxic chemical notification and release reporting: Toluene 6.25%; Xylene 37.5%
CERCLA: Hazardous substances: Toluene: 1000 lbs. (453.6 kg); Xylene: 100 lbs. (45.36 kg);

DSD (EEC) R11- Highly flammable.
R38- Irritating to skin.
R41- Risk of serious damage to eyes.

International Regulations Lists No products were found.

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

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|---------------------|---|---|
| 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 2/8/2008.

Verified by Carole Lamothe.

Printed 3/25/2008.

Information Contact Antoni Coatings Inc.
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