



**1. Identification of the Substance / Preparation and of the Company / Undertaking**

- 1.1 Product Name:** 100% UV Solids Base Coat (Activator)
- 1.2 Chemical Name:**
- 1.3 Part Number:** 294007054N
- 1.4 Relevant Identified Uses:** Lane Finish
- 1.5 Restrictions on Use:** None
- 1.6 Manufacturer:** QubicaAMF 8100 AMF Drive  
Mechanicsville, VA 23111, USA  
Emergency Phone: (352) 323-3500 (800) 535-5053  
Email: EU-Chemicals@qubicaamf.com (Worldwide);  
INFOSDS@qubicaamf.us (USA)
- 1.7 ChemTel 24-hour  
Emergency Phone Numbers:** United States, Canada, Puerto Rico, U.S. Virgin Islands: 1-800-255-3924,  
Australia: 1-300-954-583, Brazil: 0-800-591-6042, China: 400-120-0751,  
India: 000-800-100-4086, Mexico: 01-800-099- 0731,  
All other countries (collect calls accepted): +1-813-248-0585

**2. Hazards Identification**

**2.1 WHMIS hazard class**



**2.3 Label Elements**

**2.3.1 Pictogram(s)/Symbol(s):** GHS07 Harmful

**2.3.2 Signal Word:** WARNING



**2.3 Hazard statements:** Harmful if inhaled.  
Causes eye, skin and respiratory tract irritation.  
May cause lung damage.  
May cause allergic skin and respiratory reaction.

**2.4 Relevant routes of exposure:** Skin, Inhalation, Eyes

**2.5 Potential Health Effects:**

**Inhalation:** This product is irritating to the respiratory system. This product may cause sensitization by inhalation and skin contact. Methylene bisphenyl isocyanate (MDI) vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic overexposure to isocyanates has been reported to cause lung damage.



- Skin contact:** This product is irritating to the skin. May cause sensitization by inhalation and skin contact. Animal tests have indicated that respiratory sensitization can result from skin contact with MDI. Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering.
- Eye contact:** Liquid or vapor can cause moderate to severe irritation. Symptoms can include irritation, redness, scratching of the cornea, and tearing. Conjunctivitis.
- Ingestion:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Not expected under normal conditions of use.

### 2.6 Existing conditions aggravated by exposure

Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic symptoms from exposure to this product.

See Section 11 for additional toxicological information.

## 3. Composition / Information on Ingredients

### 3.1 Ingredients

Hazardous components	CAS Number	%
Methylenebis(phenylisocyanate)	101-68-8	30 - 60 %
Poly[oxy(methyl-1,2-ethandiyl)], .alpha.,.alpha.,.alpha."-1,2,3- propantriyiltris[.omega.-hydroxy-	25791-96-2	10 - 30 %
o-(p-Isocyanatobenzyl)phenyl isocyanate	5873-54-1	5 - 10 %
Triethyl phosphate	78-40-0	1 - 5 %

## 4. First Aid Measures

### 4.1 Description of first aid measures

- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.
- Skin Contact:** Immediately flush skin with plenty of water (using soap, if available). Immediately remove soiled or soaked clothing. Get medical attention.
- Eye Contact:** Check for and remove any contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
- Ingestion:** If material is ingested, immediately contact a physician or poison control center. Keep individual calm. DO NOT induce vomiting unless directed to do so by medical personnel.
- Notes to physician:** Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates.



## 5. Fire Fighting Measures

- 5.1 Extinguishing Media:** Use extinguishing measures appropriate to local circumstances and the surrounding environment. Water spray (fog), foam, dry chemical or carbon dioxide.
- 5.2 Special firefighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Keep unnecessary personnel away.
- 5.3 Unusual fire or explosion hazards:** Sealed containers at elevated temperatures or contaminated with water may rupture explosively. In case of fire, keep containers cool with water spray.
- 5.4 Hazardous combustion products:** Irritating and toxic gases or fumes may be released during a fire. Isocyanate vapors. Oxides of carbon. Hydrogen cyanide.
- 5.5 Sensitivity to Mechanical Impact:** None expected.
- 5.6 Sensitivity to static discharge:** Electrostatic charge may build-up during handling. Grounding of equipment is recommended.

## 6. Accidental Release Measures

**Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.**

- 6.1 Environmental precautions:**  
Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not allow product to enter sewer or waterways.
- 6.2 Clean-up methods:**  
Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. For minor spills, absorb isocyanates with sawdust or other absorbent, shovel into suitable unsealed containers, transport to well ventilated area (outside) and treat with neutralizing solution: mixture of 80% water and 20% non-ionic surfactant Tergitol TMN-10; or 90% water, 3-8% concentrated ammonia and 2% detergent. Large quantities may be pumped into closed, but not sealed containers for disposal. If temporary control of isocyanate vapor is required, a blanket of protein foam (available at most fire departments) may be placed over spill.

## 7. Handling and Storage

- 7.1 Safe Handling Precautions:**  
Use only in well-ventilated areas. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Wear suitable protective clothing, safety glasses and gloves.
- 7.2 Safe Storage Requirements:**  
Do not let moisture contaminate this material. Product reacts with water to release carbon dioxide, which could build up pressure in closed containers and lead to bursting. Do not reseal if moisture contamination is suspected. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Protect from direct sunlight.  
For information on product shelf life, please review labels on container or check the Technical Data Sheet.



## 8. Exposure Controls / Personal Protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Methylenebis (phenylisocyanate)	0.005 ppm TWA	0.02 ppm (.02 mg/m <sup>3</sup> ) Ceiling	None	None
Poly[oxy(methyl-1,2-ethandiyl)], .alpha.,.alpha.,.alpha."- 1,2,3-propantriyiltris[.omega.-hydroxy-	None	None	None	None
o-(p-Isocyanatobenzyl)phenyl isocyanate	None	None	None	None
Triethyl phosphate	None	None	1 ppm (7.45 mg/m <sup>3</sup> ) TWA	None

**8.2 Appropriate Engineering controls:** Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination. Local exhaust should be used to maintain levels below the TLV whenever MDI is processed, heated or spray applied. Monitoring of airborne isocyanates in the breathing zone of individuals should become part of the overall employee exposure characterization program. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted.

**8.3 Respiratory protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s). A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended when: airborne concentrations of isocyanate are known to exceed 0.005 ppm; operations are performed in a confined space or area with limited ventilation; material is heated or sprayed. Do not inhale vapors and fumes. Concentrations greater than the TLV can occur when MDI is sprayed, heated or used in a poorly ventilated area. Observe OSHA regulations for respirator use (29 CFR 1910.134).

**8.4 Eye / face protection:** Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Do not wear contact lenses.

**8.5 Protection of skin:** Use impermeable gloves and protective clothing as necessary to prevent skin contact. The workplace should be equipped with an emergency shower and eye-rinsing facility.

## 9. Physical and Chemical Properties

**Physical state:** Liquid

**Color:** Clear

**Odor:** Slight

**Odor threshold:** Not available

**pH-value:** Not applicable

**Vapor pressure:** Not available

**Boiling point/range:** Not available

**Melting point/range:** Not available

**Specific gravity:** 1.2 (Water = 1)

**Vapor density:** Not available

**Flash point:** Not applicable

**Auto-ignition temperature:** Not available

**Evaporation rate:** Not available

**Flammable/Explosion limit lower:** Not available

**Flammable/Explosion limit upper:** Not available

**Solubility in water:** Reacts slowly with water to liberate carbon dioxide gas.

**Partition coefficient (N-octanol/water):** Not available

**VOC content:** Not available



## 10. Stability and Reactivity

- 10.1 Chemical stability:** Stable under recommended storage conditions.
- 10.2 Hazardous reactions:** Will not occur.
- 10.3 Hazardous decomposition products:** Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Hydrogen cyanide. Isocyanate vapors.
- 10.4 Incompatible materials:** Amines. Alcohols. Strong bases. Reaction with water, formation of CO<sub>2</sub>
- 10.5 Conditions to avoid:** Avoid moisture. Container can be pressurised by carbon dioxide due to reaction with humid air and/or water. Prolonged heating at temperatures above 150 °C. Extremes of temperature and direct sunlight.

## 11. Toxicological Information

- 11.1 Chronic Toxicity:** Not available

**Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.**

Hazardous Components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (specifically regulated)	ACGIH Carcinogen
Methylenebis (phenylisocyanate)	No	No	No	No
Poly[oxy(methyl-1,2-ethandiyl)], .alpha.,.alpha.,.alpha."- 1,2,3-propantriyltris[.omega.-hydroxy-	No	No	No	No
o-(p-Isocyanatobenzyl)phenyl isocyanate	No	No	No	No
Triethyl phosphate	No	No	No	No

Hazardous Components	LD50s and LC50s	Health Effects/Target Organs
Methylenebis (phenylisocyanate)	Inhalation LC50 (RAT, 4 h) = 0.369 mg/1 Inhalation LC50 (RAT, 4 h) = 0.38 mg/1	Irritant, Respiratory, Allergen
Poly[oxy(methyl-1,2-ethandiyl)], .alpha.,.alpha.,.alpha."- 1,2,3-propantriyltris[.omega.-hydroxy-	None	Irritant
o-(p-Isocyanatobenzyl)phenyl isocyanate	None	Irritant, Allergen, Respiratory
Triethyl phosphate	Oral LD50 (rabbit) = 1.6 g/kg Oral LD50 (RAT) = 1.6 g/kg Dermal LD50 (rabbit) > 20 g/kg Inhalation LC50 (RAT, 4 h) = 8.817 mg/1	Irritant, Central nervous system



## 12. Ecological Information

**12.1 Ecological information:** No information available

## 13. Disposal Considerations

**Information provided is for unused product only.**

**13.1 Waste disposal recommendations:** Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product.

## 14. Transport Information

### 14.1 Canada Transportation of Dangerous Goods - Ground

<b>Proper shipping name:</b>	Not regulated
<b>Hazard class or division:</b>	None
<b>Identification number:</b>	None
<b>Packing group:</b>	None

### 14.2 International Air Transportation (ICAO/IATA)

<b>Proper shipping name:</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard class or division:</b>	9
<b>Identification number:</b>	UN 3082
<b>Packing group:</b>	III

### 14.3 Water Transportation (IMO/IMDG)

<b>Proper shipping name:</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard class or division:</b>	9
<b>Identification number:</b>	UN 3082
<b>Packing group:</b>	III

## 15. Regulatory Information

### 15.1 Canada Regulatory Information

**CEPA DSL/NDSL Status:**

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

### 15.2 United States Regulatory Information

**TSCA 8 (b) Inventory Status:**

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.



## **16. Other Information**

**16.1 SDS: 100% UV Solids Base Coat (Activator)**

**16.2 Product ID:** 294007054N

**16.3 SDS Revision Level:** 2.0

**16.4 SDS Revision Date:** 01 October 2017

**16.5 Revision Reason(s):** To add ChemTel Emergency Phone Numbers.

**16.6 Notice to Reader:** To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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