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NAME OF PREPARER : Safety Director

===== SECTION 1 - PRODUCT IDENTIFICATION =====

PRODUCT NAME: PERMACLEAN A.G. MATTE HMIS CODES: H F R P  
 PRODUCT CODE: TK-1496 OTC 3\*3 1 G

===== SECTION 2 - COMPOSITION/INGREDIENT INFORMATION =====

COMPONENT	CAS NUMBER	WEIGHT PERCENT	EXPOSURE LIMITS		
			OSHA PEL	ACGIH TLV	OTHER
Tertiary Butyl Acetate	540-88-5	25-50			
Homopolymer of HDI	28182-81-2	25-50	200 PPM	200 PPM	
+** Toluene	108-88-3	14.5			0.5 MG/M3 PEL
+** Xylene, mixed isomers	1330-20-7	3.1	100 PPM	50 PPM	150 PPM
Amorphous Fumed Silica	112945-52-5	1-10			
+** Ethyl Benzene	100-41-4	1.2	100 PPM	100 PPM	STEL 150 PPM
* Hexamethylene Diisocyanate Monomer	822-06-0	.24			
			0.02 PPM	0.005PPM TWA	

\* Chemical(s) that are chronic health hazards. Refer to section 3 for further information.  
 + Toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.  
 ^ Hazardous Air Pollutant established by the EPA as directed by the Clean Air Act of 1990.

===== SECTION 3 - HEALTH HAZARDS IDENTIFICATION =====

**PRIMARY ROUTES OF EXPOSURE:**

Skin contact, eye contact, and inhalation.

**EFFECTS OF ACUTE EXPOSURE:**

**EYES:** Contact with eyes may cause irritation including burning, watering, and redness.

**SKIN:** Contact may cause mild skin irritation including redness, burning, and drying and cracking of skin. Continued exposure may develop into dermatitis. Solvents can penetrate the skin and cause systematic effects similar to those under inhalation symptoms. Isocyanates react with skin protein and moisture and can cause irritation. Prolonged contact with isocyanates can cause swelling, rash, scaling or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid material or even as a result of vapor only exposure.

**INHALATION:** High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, asthma, drowsiness, unconsciousness, and other central nervous system effects, and possibly death.

**INGESTION:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

**CHRONIC HEALTH EFFECTS:**

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (Sometimes referred to as Solvent or Painter's Syndrome). Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal. Chronic exposure may also cause damage to the respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, spleen and kidneys. Repeated skin contact may cause persistent irritation or dermatitis.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

Conditions aggravated by exposure may include skin disorders, respiratory (asthma-like) disorders, and pre-existing liver or kidney conditions.

===== SECTION 4 - FIRST AID MEASURES =====

IF ON SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. If irritation develops and persists, seek medical attention.



supplied) may be necessary for spray applications or other situations such as high temperature use which may produce inhalation exposures. A air-supplied respirator is recommended. Before an air-purifying respirator can be used, air monitoring must be performed to measure airborne concentrations if isocyanates. An air-purifying (combination organic vapor and particulate) proven by test to be effective in isocyanate-containing spray environments can be used when ALL of the following conditions are met: Airborne isocyanate monomer concentrations are known to be below 0.05 ppm averaged over 8 hours; and airborne polyisocyanate concentrations are below 5 mg/m3 averaged over 8 hours.

Use NIOSH certified end of service life indicator or a change schedule based upon objective information or data to ensure that cartridges are replaced before the end of their service life. In addition, prefilters should be changed whenever breathing resistance increases due to particulate buildup.

**VENTILATION:**

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

**PROTECTIVE GLOVES:**

Prevent prolonged or repeated contact by wearing gloves impervious to solvents and other appropriate protective clothing. Launder contaminated clothing before reuse.

**EYE PROTECTION:**

Wear safety glasses to reduce eye contact potential. Chemical safety goggles (ANSI Z87.1 or approved equivalent) are appropriate if splashing is likely. Eye washes must be available where eye contact can occur.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

**WORK/HYGIENIC PRACTICES:**

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company guidelines.

**===== SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES =====**

<b>PHYSICAL STATE:</b> Liquid	<b>COLOR:</b> Various colors
<b>ODOR:</b> Hydrocarbon odor	<b>SOLUBILITY IN WATER:</b> Insoluble/Negligible
<b>SPECIFIC GRAVITY (H2O=1):</b> .97	<b>VAPOR DENSITY:</b> Heavier than air.
<b>BOILING RANGE:</b> 208 F - 277 F	<b>EVAPORATION RATE:</b> Faster than nBuAc
<b>COATING V.O.C.:</b> 348 g/l (2.9 lb/gal )	

**===== SECTION 10 - STABILITY/REACTIVITY DATA =====**

**STABILITY:**  
Stable under normal conditions and handling.

**CONDITIONS TO AVOID:**  
All possible sources of ignition.

**INCOMPATIBILITY (MATERIALS TO AVOID):**  
Avoid exposure to strong oxidizing agents and reducing agents.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:**  
Combustion may liberate toxic byproducts such as carbon dioxide, carbon monoxide, various oxides of carbon and nitrogen.

**HAZARDOUS POLYMERIZATION:**  
Will not occur.

**===== SECTION 11 - TOXICOLOGICAL INFORMATION =====**

**SENSITIZATION:**  
As as 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 isocyanates at levels well below applicable exposure limits. These symptoms could be immediate or delayed several hours after exposure. This increased sensitivity can persist for weeks and in severe cases for several years.

**CARCINOGENICITY:**  
There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

**REPRODUCTIVE TOXICITY:**  
There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

**TERATOGENICITY (BIRTH DEFECTS):**  
There is no data available to indicate any components present at greater than 0.1% may cause birth defects. Available information indicates that Toluene is NOT teratogenic, but it can be toxic to the embryo and fetus and may reduce fertility. In animal tests, high inhaled doses of Toluene has caused reduced litter sizes, retarded development of the fetus, and increased incidence of non-lethal abnormalities.

**MUTAGENICITY:**  
There is no data to indicate that any component present at greater than 0.1% will alter DNA.

=====**SECTION 12 - ECOLOGICAL INFORMATION**=====

**ENVIRONMENTAL DATA:**

Although no information is available for this specific product mixture, individual components may by themselves may have ecological affects.

=====**SECTION 13 - DISPOSAL CONSIDERATIONS**=====

This product is considered a RCRA hazardous waste due to the characteristic(s) of D001 (ignitability). Waste is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Container contents should be completely used and containers empty prior to discarding. Container rinsate could be considered a RCRA hazardous waste and must be discarded in compliance with all applicable regulations. Larger empty containers, such as drums, should be returned to a professional drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

=====**SECTION 14 - REGULATORY INFORMATION**=====

**SHIPPING NAME:**

UN1263, Paint, 3, II

All ingredients of this product are listed, or are excluded from listing, on the US Toxic Substances Control Act (TSCA) chemical substance inventory.

This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372). See section 2.

**STATE SPECIFIC REQUIREMENTS:**

This product does not contain a chemical known to the state of California to cause cancer, birth defects or reproductive harm, subject to the requirements of California Proposition 65.

Toluene - Reproductive harm.

STATE LISTED COMPONENTS	CAS NUMBER	STATE CODE
Xylene	1330-20-7	CA, CT, FL, IT, LA, MA, ME, MN, PA, RI
Ethyl Benzene	100-41-4	CA, NJ, PA

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