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MATERIAL SAFETY DATA SHEET

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MSDS Date: 8/5/05

Supercedes All Previous Publications

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SECTION I PRODUCT INFORMATION

PRODUCT NAME AND SYNONYMS: 2001 TPO WHITE PASTE SEALANT

Health	2
Flammability	3
Reactivity	0
Specific Hazard	—

CHEMICAL FAMILY: Elastomeric Sealant
PRODUCT USE: To Seal Cut Edges Of Reinforced TPO Membrane
FORMULA: Mixture

SECTION II HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	%	TWA	STEL	SKIN PEL (ppm) CEILING	NATION	LD ₅₀ OF INGREDIENT DESIG (SPECIFY SPECIES & ROUTE) (mg/kg)	LC ₅₀ OF INGREDIENT (SPECIFY SPECIES) (ppm/4H)
Xylene	330-20-7	50-75	100	150		N/A	orl-rat: 4,300	Rat: 5,000
Mineral Spirits	8052-41-3	5-20	100			N/A	Not Available	Eye-Human 470/15 min
Titanium Dioxide	13463-67-7	1-5	10mg/m ³	(as dust)		N/A	ims-rat: TDLo: 360/2Y	Not Available
Quartz (Silicon Dioxide)	14808-60-7	<1.0	0.1 mg/m	(as dust)		N/A	ivn-rat: LDLo: 90	Not Available
							N/A = Not Applicable	Y= Years H= Hours

SECTION III PHYSICAL DATA

Physical State	Odor and Appearance	VOC (grams/Liter)	Odor Threshold (ppm)	Vapor Pressure (mm Hg)
Liquid	White, tan or gray liquid with Hydrocarbon solvent odor.	700	Not Available	6.7 @21°C
Vapor Density (AIR=1)	Evaporation Rate (nBuAc=1)	Boiling Point (°C)	Freezing Point (°C)	pH
Heavier than Air	Slower than nBuAc	138	Not Determined	N/A
Specific Gravity	Coeff Water/Oil Dist	Solubility in Water	Volatiles by Wt (%)	Corrosivity
0.94	Not Available	Insoluble	75	N/A

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability: Yes x No If Yes, Under Which Conditions? Ignition can occur when this product is exposed to heat, sparks, or flame. Division 2

Flashpoint (°C) & Method: 26.7°C (80°F) TCC
Autoignition Temperature (°C): 530°C (986°F)
Lower Flammable Limit (% by Vol): 1.1
Upper Flammable Limit (% by Vol): 7.0

Hazardous Combustion Products: Carbon Monoxide and Carbon Dioxide

EXPLOSION DATA:

Sensitivity To Impact: There is no evidence to show that this product is sensitive to physical shock.
Sensitivity To Static Discharge: As with most hydrocarbon solvents, vapors may ignite when expose to static discharge.
Extinguishing Media: In case of fire, use dry chemical, carbon dioxide, or foam. Water may not be effective as an extinguishing agent. Water fog or spray may be used to provide a smothering effect on fire and to cool fire-exposed containers and surrounding combustibles. Do not use a solid stream of water because it can scatter and spread the fire.

Special Fire Fighting Procedures: This product contains solvents that are dangerous fire and explosion hazards when exposed to heat or flame. Fire fighters should wear self-contained breathing apparatus and full protective clothing with a full piece operated in the positive pressure demand mode.

Unusual Fire And Explosion Hazards: Flammable. Store and use away from all sources of heat, flame, or sparks. Do not smoke while applying. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point and flash back. All containers should be grounded when material is transferred.

SECTION V REACTIVITY DATA

Chemical Stability: Stable
Hazardous Polymerization: Will not occur.
Conditions To Avoid: Heat, sparks, and flames; ignition sources.
Incompatibility (Materials to Avoid): Strong oxidizing agents, acids and bases.
Hazardous Decomposition Products: In the event of partial combustion, fumes, smoke, carbon monoxide, and carbon dioxide may be released.

=====SECTION VI TOXICOLOGICAL PROPERTIES=====

Route of Entry: Skin Contact X Skin Absorption X Eye Contact X Inhalation X Ingestion X

Effects of Acute Exposure To Product: Skin, eye, nose and throat irritation on short term exposure to liquid or vapor. Overexposure may result in headache, dizziness, fatigue, nausea, possible unconsciousness and even asphyxiation. Ingestion can cause gastrointestinal irritation, vomiting and diarrhea. Aspiration into lungs can cause chemical pneumonitis which can be fatal.

Effects of Chronic Exposure: Moderate irritation of skin, eyes, and mucous membranes of upper respiratory tract on prolonged/repeated contact. Dermatitis and defatting of skin. Chronic exposure may cause reversible kidney and liver injury. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Exposure Limits	Irritancy of Product	Sensitization to Product	Carcinogenicity
OSHA PEL-TWA Xylene: 100 ppm	Eye, nose and throat irritation at or above vapor concentration of 100 ppm	None known	No evidence
Teratogenicity	Reproductive Toxicity	Mutagenicity	Tumorigenicity
No evidence	No evidence	No evidence	No evidence

=====SECTION VII PREVENTIVE MEASURE=====

PERSONAL PROTECTIVE EQUIPMENT:

- Gloves:** Hycron or equivalent solvent permeation resistant gloves recommended.
- Respirator:** Approved NIOSH respirator must be used if vapor concentration is 100 ppm or above.
- Eye:** Protective glasses or goggles recommended.
- Footwear:** Industrial boots to protect feet from sealant contact.
- Clothing:** Long sleeves, long trousers to protect skin from sealant contact.
- Other:** Protective skin creams or emollients useful.

Engineering Controls (EG., Ventilation, Enclosed Process): Do not use in enclosed areas without proper explosion-proof ventilation. General and local exhaust ventilation must be sufficient to control vapor concentrations and keep the vapor concentration below 100 ppm.

Leak or Spill Procedure: Remove all sources of ignition. Avoid breathing vapors. Use self-contained breathing apparatus in enclosed area. Ventilate area. Contain and remove with inert absorbent materials and non-sparking tools.

Waste Disposal: Dispose of in accordance with all local, state, and federal regulations.

Handling Procedures and Equipment: Use away from all sources of heat, flame, or sparks. Do not smoke while using. Handling equipment must be grounded to prevent sparking. Handle with non-sparking tools. Wash with soap and water before eating or drinking. Launder contaminated clothing. KEEP OUT OF REACH OF CHILDREN.

Storage Requirements: Keep containers cool, dry, and store away from all sources of heat, flame, and sparks. Store at 60-95°F and out of sun. Keep containers tightly closed and store with adequate ventilation. Do not pressurize, cut, weld, or grind the containers or empty containers which may contain residual product and solvent vapors that may ignite explosively.

Special Shipping Information: A red caution label is required for 1 and 5 gallon pails only. DOT Classification: Adhesives, 3, UN1133, PG II.

=====SECTION VIII FIRST AID MEASURES=====

- Specific Measures:** Whenever possible, remove the worker from the source of contamination.
- Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Get medical attention.
 - Skin Contact:** Immediately flush skin with running water and remove contaminated clothing. Wash exposed area with soap and water. Get medical attention.
 - Inhalation:** Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention immediately.
 - Ingestion:** DO NOT induce vomiting. Get medical attention immediately.
- Respiratory systems associated with pre-existing lung disorders, skin allergies, and pre-existing heart disorders may be aggravated by exposure to this material.

=====SECTION IX ADDITIONAL REGULATORY INFORMATION=====

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372: XYLENE, CAS# 1330-20-7, 50-75%
California Proposition 65
 This product contains the following toxic chemical(s) known to the state of California to cause cancer: QUARTZ

=====SECTION X PREPARATION INFORMATION=====

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations: Prepared By: 2001 Inc.