(TTTT	Serra	PRODUCT:	987 Urethane Adhesive; O Moisture Curing, Non-Sag	ne Component, Sealant
		MSDS ID:	ND3561	
		ORIG. DATE:	12/30/2008	
		REV. DATE:		
ND INDUSTRIES , INC.	(248) 288-0000 Fax: (248) 288-0022	REV. DATE:		
1893 BARRETT ROAD TROY, MICHIGAN 48084	1-800-424-9300		PREPARED BY: C	hemical Safety

SECTION I -Material Identification and Information	h H: 2		F: 2	R: 1	PPE:
COMPONENTS	CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Xylene	1330-20-7	<8	100 ppm	150 ppm	
Petroleum Distillates	64742-47-8	<2	n.e.	n.e.	
Diphenylmethane Diisocyanate (MDI)	101-68-8	<0.5	0.020 ppm	0.005 ppm	

All ingredients are listed on the TSCA Inventory.

n.a.= not applicable / n.e.=not established

SECTION II - Physical and Chemical Characteristics					
BOILING POINT:	>104°F				
VAPOR DENSITY:	n.e.	air = 1			
VAPOR PRESSURE:	n.e.		DENSITY OF COATING: 1.17 @ 68°F		
MELTING POINT:	n.a.				
SPECIFIC GRAVITY:	n.e.	water $= 1$			
EVAPORATION RATE:	n.e.				
WATER REACTIVE:	No				
SOLUBILITY IN WATER:	Insoluble				
APPEARANCE AND ODOR:	White, gray o	r black paste with s	slight odor.		

SECTION III - Fire and Explosion Hazard Data

FLASH POINT:	279°F	
AUTOIGNITIC	DN TEMPERATURE: >392°F	
FLAMMABILITY	Y LIMITS % IN AIR: LEL: 0.6	UEL: 8.0
EXTINGUISHE	R MEDIA: Carbon dioxide, dry powder, The reaction between water	and foam. If water is used, it should be used in very large quantities. and isocyanate can be vigorous.
SPECIAL FIREFIGHTING PROCEDURES:	Evacuate downwind personnel. Wear fighting fires. Cool closed containers w	full protective gear including self-contained breathing apparatus when vith water. Heated containers can rupture violently.
UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID:	Dense smoke is emitted when product occur when product temperature reach MDI vapor and other gases may be ge	is burned without sufficient oxygen. Water spray may cause boiler-over to es the boiling point of water, and the reaction forming CO_2 will accelerate. nerated by thermal decomposition.

PRODUCT: 987 Urethane Adhesive; One Component, Moisture Curing, Non-Sag Sealant

SECTION IV - Reactivity Hazard Data

STABILITY:	stable: X unstable:
HAZARDOUS POLY	MERIZATION: may occur: X will not occur:
CONDITIONS A TO AVOID:	Avoid contact with water, amines, alcohols, and excessive temperatures. Keep away from direct sunlight.
INCOMPATIBILIT	Y: Water, amines, alcohols.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide, nitrogen oxide, isocyanate vapor, and traces of hydrogen cyanide is possible.
SECTION V - H	lealth Hazard Data
PRIMARY ROUTES	OF ENTRY: INHALATION: X INGESTION: SKIN ABSORPTION: X
EYE CONTACT:	May cause mild eye irritation. Symptoms include stinging, tearing, and redness.
FIRST AID:	Flush eyes with plenty of water for at least 20 minutes while holding eyelids open. Seek medical attention.
SKIN CONTACT:	May cause mild skin irritation. Symptoms include redness and burning of skin. May cause allergic skin reaction characterized by delayed blistering, and other skin effects.
FIRST AID:	Remove contaminated clothing immediately. Wash skin thoroughly with soap and warm water. Seek medical attention if symptoms or sensitization develops or persists.
INHALATION:	Breathing of vapor or mist is possible when material is sprayed.
FIRST AID:	Move affected individual to fresh air, administer oxygen and artificial respiration if necessary. Seek medical attention if symptoms persist.
INGESTION:	Not expected to be a route of entry. Swallowing small amounts of this material is not expected to be harmful. Ingestion of large amounts may be harmful, and can cause severe gastrointestinal tract irritation.
FIRST AID:	Product is not intended to be ingested. Seek medical attention. Physicians should treat symptomatically.
CHRONIC EFFECTS:	May cause skin and respiratory sensitization.
Carcinogenic: No	

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Component	Oral LD50	Dermal LD50	Inhalation LC50
Xylene	>4,300 mg/kg (rat)	14,100 uL/kg (rabbit)	4550 ppm/4 hr. (rat)
Petroleum Distillates	n.e.	n.e.	n.e.
Diphenylmethane Diisocyanate (MDI)	n.e.	n.e.	n.e.

SECTION VI - Control and Protective Measures

RESPIRATORY Respiratory protection must be used if exposures cannot be maintained below the recommended exposure limits. **PROTECTION:** PROTECTIVE Wear chemical resistant gloves. GLOVES: **EYE PROTECTION:** Wear chemical goggles or full face shield and safety glasses with side shields. LOCAL EXHAUST: X MECHANICAL: SPECIFIC: VENTILATION TO BE USED: OTHER (specify): Use local exhaust ventilation if mist or vapor may be generated during use. **PROTECTIVE CLOTHING** Wear chemical resistant clothing to prevent repeated or prolonged exposure to material, in order to AND EQUIPMENT: avoid possible skin sensitization. Chemical resistant boots may be necessary depending on use conditions. Wash hands thoroughly after using the product, before eating, drinking, smoking or using the toilet. HYGIENIC WORK Do not wear contact lens when using this product. Safety shower/eyewash station should be PRACTICES: available in the work area.

SECTION VII - Precautions for Safe Handling and Spill/Leak Procedures

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Wear full protective clothing and respiratory protection as required to maintain exposures below the applicable exposure limits during spill clean-up. Avoid ignition sources. Collect spilled material using an inert absorbent and place in a suitable container for disposal. If necessary MDI can be neutralized with an ammonia and water solution. For neutralizing solution use 90% water, 5% ammonia, and 2% detergent. Use 10 parts neutralizer to one part MDI.

WASTE DISPOSAL
METHODS:Dispose of in accordance with all federal, state, and local regulations. Empty containers must be handled
with care as they may still contain residue. Do not heat or cut empty product containers with electric or gas
torch.SAFE HANDLING
AND STORAGE:Keep containers tightly closed when not in use. Store in a cool dry location away from direct sunlight. Do
not store with alcohols, amines or other materials that react with diisocyanates. Avoid prolonged heating

OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:

above 320°F.

Avoid skin and eye contact. Avoid inhalation of vapors. Keep out of reach of children.

RECOMMENDED	HEALTH 2	FLAMMABILITY	2	REACTIVITY 1	PERSONAL
NFPA/HMIS RATING	note: ratings may diffe	r according to appl	lication, enviro	onment, and physical state.	PROTECTION

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NOTES:

SECTION 313 SUPPLIER NOTIFICATION

Detaching this notification from the Material Safety Data Sheet is prohibited by law and any copying or distribution of same requires this attachment be included.

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 40 CFR 372:

<u>CAS #</u>	CHEMICAL NAME	% BY WEIGHT
101-68-8	Diphenylmethane Diisocyanate	1-1.2%
1330-20-7	Xylene	8%

This product contains the following materials that under California Proposition 65 of the Safe Drinking Water and Toxic Enforcement Act of 1986 are recognized to cause cancer or reproductive toxicity.

Material	CAS #	Concentration %	Cancer Agent	Reproductive Toxin	cancer agent &	Reproductive Toxin
None						

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