

# MATERIAL SAFETY DATA SHEET

Date Issued: 8/31/2004 Supercedes: -----

## I. Identification of the Substance/Preparation and the of the Company/Undertaking

### Identification of the product

Product Name: Holographic Gel

### Company/undertaking identification:

Company:

Nailite

4530 N. Hyatus Rd, #109

Fort Lauderdale, FL 33351 USA

Phone 1 954 741 2924

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Emergency Contact Information

1 954 741 2924

## II. Composition on Ingredients

**Synonyms:** Acrylated urethane blend

	CAS #	WT%	OSHA TWA ppm	OSHA STEL ppm	ACGHH TWA ppm	ACGHH STEL ppm
Urethane Triacrylate	***	87-94	---	---	---	---
Photoinitiator	947-19-3	3-5	---	---	---	---
Methacrylate	79-41-4	2-4	---	---	20 ppm / 70 mg/cu. m	---
Titanium Dioxide	13463-67-7	0-.5	---	---	---	---
Red Pigment, Ca Salt	7023-61-2	0-.03	---	---	---	---

--- Not established

\*\*\* The specific chemical identity is being withheld as a trade secret

## III. Hazard Identification

Irritating to eyes. Repeated exposure may cause skin dryness, cracking or rash.

## IV. First Aid Measures

**Eye Contact:** Flush with plenty of water for at least 15 minutes and seek medical attention.

**Skin Contact:** Remove contaminated clothing and wash contact area with soap and water for 15 minutes. Particular attention should be paid to hair, nose, ears and other areas not easily cleaned. See section VIII. Note to physician: effects can be delayed 24-48 hours.

**Ingestion:** If appreciable quantities are swallowed, seek medical attention.

**Inhalation:** In case of exposure to a high concentration of vapor or mist, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention

## V. Fire-Fighting Measures

**Extinguishing Media:**

Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires

**Unusual Fire and Explosion Hazards:**

High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and and the violent rupture of storage vessels and containers. Avoid the use of a stream of water to control fires since frothing can occur.

**Special Fire Fighting Procedure:**

Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined area where potential for exposure to vapors or products of combustion exists.

## VI. Accidental Release Measures

**Steps to Be Taken in Case Material is Released or Spilled:**

Spontaneous polymerization can occur. Eliminate ignition & heat sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Absorb with inert material and dispose. Flush area with water; prevent washings from entering waterways. Spills or releases to the environment may be reportable to the National Response Center (800- 424-8802) and to state and local agencies.

**Waste Disposal Method:**

For large spills: incinerate or use biological treatment in accordance with federal, state and local regulations. For small spills: cure using UV light or peroxide and dispose in accordance with federal, state and local regulations.

## VI. Handling & Storage

**Stability:** Normally Stable

**Conditions to Avoid:**

Storage >100F, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

**Materials to Avoid:**

Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust and strong bases.

**Hazardous Decomposition Products:**

Fumes produces when heated to decomposition may include: carbon monoxide, carbon dioxide, oxides of nitrogen.

## VIII. Exposure Controls/Personal Protection

**Respiratory Protection:**

When exposed to aerosols or vapors, use full-face respirator with organic vapor cartridges that utilize a particulate pre-filter. In emergency situations, or when used in confined spaces, use self-contained breathing apparatus or other air-supplied full face respirator.

**Ventilation:**

Local exhaust - recommended to control exposure which may result from operations generating  
Mechanical - Not recommended to control exposure for operations generating aerosols or vapors.

**Protective Gloves:**

Impervious gloves (neoprene). A combination of barrier cream, applied before exposure, and gloves is recommended. Do not apply cream after exposure.

**Eye Protection:**

Chemical splash goggles or safety glasses when handling large quantities.

**Other Protective Equipment:**

None

<b>IX.</b>	<b>Physical and Chemical Properties:</b>					
	Manufacturer's ID:	<b>Clear Thick Gel, Pink Gel, White Gel</b>	Form:	liquid		
	Product Class:	Acrylated urethane	Color:	colorless, white or pink (depending upon product)		
	Boiling Range:	n.a.	Percent Volatile by Volume:	0		
	Vapor Density:	n.a.	Weight Per Gallon:	9.1 lbs		
	VOC:	0.0	Vapor Pressure at 20C:	n.a.		
	Evaporation Rate:	n.a.	Solubility in Water:	insoluble		
	Appearance and Odor:	Clear liquid with mild odor				
	Flashpoint:	> 212 F Setflash				
	Explosion Limits:	LEL: n.a. UEL: n.a.				
<b>X.</b>	<b>Stability and Reactivity</b>					
	Stability:	Normally Stable				
	Hazardous Polymerization:	May occur – uncontrolled polymerization may cause rapid evolution of heat and increased pressure that could result in violent rupture of sealed storage vessels or containers.				
	Conditions to Avoid:	Storage >100F, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.				
	Materials to Avoid:	Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust and strong bases.				
	Hazardous Decomposition Products:	Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide, oxides of nitrogen.				
<b>XI.</b>	<b>Toxicological Information</b>					
	Health Hazards:	See section V				
	Ingestion:	n.a.				
	Inhalation:	n.a.				
	Skin Contact:	n.a.				
	Allergy Sensitization:	Mild skin and eye sensitization may be observed upon continued overexposure				
	Carcinogenicity:	Category E (evidence of non-carcinogenicity for humans)				
	Mutagenicity:	Negative in all tests				
<b>XII.</b>	<b>ECOLOGICAL INFORMATION</b>					
	Biologic Degredation:	Biodegradation:	n.a.			
	Behavior in environmental compartments:	Distribution: log p(o/w):	n.a.	no bioaccumulation to be expected		
	Ecotoxic effects:	Biological effects:				
		Fish toxicity: L. macrochirus LC <sub>50</sub> : n.a.				
		Daphnia toxicity: Daphnia magna EC <sub>50</sub> : n.a.				
		Maximum permissible toxic concentrations:				
		Algeal toxicity: Sc. Quadricauda IC <sub>5</sub> : n.a.				
		Bacterial toxicity: M. aeruginosa EC <sub>5</sub> : n.a.				
		Protazoa: E. sulcatum EC <sub>5</sub> : n.a.				
	Further ecological data:	Degradability:				
		BOD <sub>5</sub> : n.a.				
		COD: n.a.				
		TOD: n.a.				
<b>XIII.</b>	<b>DISPOSAL INFORMATION</b>					
	Product:	Chemicals must be disposed of in compliance with federal, state and local regulations.				
	Container:	Container must be disposed of in accordance with federal, state and local regulations.				
<b>XIV.</b>	<b>Transportation Information</b>					
	D.O.T. Shipping Name:	polyurethane resin				
	D.O.T. Hazard Class:	none				
	D.O.T. Label(s):	none				
	D.O.T. UN/NA Number:	none				
<b>XV.</b>	<b>Regulatory Information</b>					
	In The EU:	Classification and Labeling (according to 88/379/EEV as amended): None				
	Threshold Limit Value:	<b>OSHA PEL</b> (USA) n.a.	<b>ACGIH TLV</b> (USA) n.a.	<b>MAK</b> (Germany) n.a.	<b>HGV</b> (Denmark) n.a.	<b>Others</b> ---
	Product Name:	See section I				
	Active Ingredient:	urethane acrylate				
	EPA Reg. No.	n.a.				
<b>XVI.</b>	<b>Other Information</b>					
	All of the components of this product are included on the TSCA inventory					
	INVENTORY STATUS:					
	Australia (AICS):	Included on inventory				
	Canada (DSL):	Included on inventory				
	European Economic Community (EINECS):	Included on inventory				
	Japan (MITT):	Included on inventory				
	Korea (MOE):	Included on inventory				