

**Material Safety Data Sheet CRYSTAL NAILS MEGA WHITE FILM GEL**

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**Section 1 – Identification of the Substance/Preparation and of the Company/Undertakin**

Material / Item Name: **Mega White Film Gel** MSDS Approval Date: 06/12/2005  
 Chemical Name: N/A MSDS Prepared by: JRR  
 Family: UV GELS GEL Type: TYPE 2A  
 Manufacturer/Distributor: Litrox Factory Investments LLC (443960-91)  
 US 8130 SW Portland, Oregon,  
 Beaverton-Hillsdale Highway 97225.

**Product Use:** NAIL GEL**Product#:** 4020110**Section 2 - Composition/Information on Ingredients**

Chemical Identity	CAS#	EINECS#	INCI (or other substance) Name	Exposure OSHA TWA/STEL	Limits ACGIH TWA/STEL	Carcinogen IARC/NTP/OSHA	%
Polyurethane Acrylate Oligomer	Exempt	N/E	Polyurethane Acrylate Oligomer	N/E	N/E	Not Listed	70-75
Tetraethylene glycol Dimethacrylate	109-17-1	203-653-1	PEG-4 Dimethacrylate	N/E	N/E	Not Listed	15-20
Ethyl Methacrylate	97-63-2	202-597-5	Ethyl Methacrylate	100 ppm	100 ppm	Not Listed	5-10
Hydroxycyclohexyl phenyl ketone	947-19-3	213-426-9	Hydroxycyclohexyl phenyl ketone	N/E	N/E	Not Listed	1-3
Titanium Dioxide	13463-67-7	236-675-5	Titanium Dioxide/C177891	15 mg/m3	10 mg/m3	3/no/no	0-5
D&C Violet #2	81-48-1	201-353-5	Violet 2/C160725	N/E	N/E	Not Listed	0-1
Silicon Dioxide*	60676-86-0	262-373-8	Silica	N/E	N/E	Not Listed	0-1

N/E - None Established  
 N/R - Not Reviewed  
 N/DA - No Data Available  
 N/A - Not Applicable  
 \* - NIOSH Exposure limits for Silicone Dioxide - 6 mg/m<sup>3</sup> TWA, 3000 mg/m<sup>3</sup> IDLH

**Hazard Symbols:** Xi, F **Risk Phrases:** R22, R36/37/38, R43 **Safety Phrases:** S18, S24/25, S36/37, S38, S46**Section 3 - Hazards Identification****EMERGENCY OVERVIEW**

This information is based on findings from related or similar materials.

- Flammable liquid and vapor!
- May be slightly toxic.
- May cause moderate skin injury (reddening & swelling).
- May cause chemical burn in eye.

**Potential Health Effects, Signs and Symptoms of Exposure:**

Primary Route of Entry No specific information available.

Eye Contains materials that are essentially nonirritating, but contact may cause slight transient irritation. Material may act as a Lachrymator (a substance which increases the flow of tears).

Skin Contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formation (burns). Since irritation may not occur immediately, contact can go unnoticed.

Ingestion May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation May cause respiratory tract irritation with presence of monomer. Vapors may cause dizziness or suffocation.

Sub-Chronic Effects No specific information available. Limited tests showed no evidence of teratogenicity in animals. A lifetime skin painting study with mice showed no evidence of carcinogenicity.

NOTE: Refer to Section 11, Toxicological Information for Details

**Section 4 - First Aid Measures**

First Aid for Eye Flush with plenty of water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub or keep eyes closed.

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First Aid for Skin	Remove contaminated clothing and wash contact area with soap and water for 15 minutes. Get medical aid if systems persist. Wash clothing before reuse.
First Aid for 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.
First Aid for Ingestion	Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2 to 4 cupfuls of milk or water.

**Section 5 - Fire Fighting Measures**

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
110°F/43°C Penske-Martin	No Data	No Data

**Method:**

Extinguishing Media: Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires.

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

**Unusual Hazards:**

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

**Section 6 - Accidental Release Measures**

Spill or Release Procedures Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into retaining containers. Place containers in a well ventilated area. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

**Section 7 - Handling and Storage**

Handling Ground and bond containers when transferring material. Avoid contact with skin and eyes, and clothing. Use with adequate ventilation and avoid breathing in vapor. Keep container closed when not in use. Avoid contact with heat, sparks and flame. Remove all contaminated clothing, shoes, belts and other leather goods immediately. Incinerate leather goods (including shoes). Wash contaminated clothing thoroughly before reuse. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks, or open flames.

**Material is extremely light sensitive.** Use extreme care and do not expose to natural or UV light, unless using material for its intended use. Since the material is very photosensitive any type of light may initiate the curing process.

Storage Keep away from heat, sparks, and flame. Store in a tightly closed container. Store in a cool, dry, well-ventilated place, away from any type of light. Store at temperatures below 100°F/38°C. Store product in a totally opaque container.

Explosion Hazard High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers.

**Section 8 - Exposure Controls / Personal Protective Equipment**

Engineering Controls Local exhaust recommended to control exposure which may result from operations generating aerosols and hot operations generating vapors.

**Personal Protective Equipment**

General To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

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Eye/ Face eye and Protection	Wear safety glasses. Wear overall chemical splash goggles and face shield when possibility exists for face contact due to splashing or spraying material.
Skin Protection	Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.
Respiratory Protection	A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by nuisance level organic vapor dust masks can be used, however the use of the respirator is limited. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

## Section 9 - Physical and Chemical Properties

Appearance		Odor & Odor Threshold		pH	Specific Gravity	Viscosity	% Volatile	
Clear, semi-viscous liquid		characteristic acrylate odor		NA	(H2O=1) : 1.15	N/DA	By Volume : < 0.5	
Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w		Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
N/A	N/A	N/A		(mm Hg) @ 20°C:< 0.01	No Data	No Data	No Data	Insoluble
Flash Point (°F/°C)			Flammable Limit (vol%)			Auto-ignition Temperature (vol%)		
110°F/43°C Penske-Martin			No Data			No Data		

## Section 10 - Stability and Reactivity

**Stability**  
Normally Stable

**Hazardous Decomposition Products:**  
Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide.

**Conditions to Avoid:**

Storage <100°F/38°C, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

**Incompatibility (Materials to Avoid):**

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

**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.

## Section 11 - Toxicological Information

**Acute Oral Toxicity**

No information available

**Acute Dermal Toxicity**

No information available

**Acute Inhalation Toxicity**

No information available

**Irritation - skin**

No information available

**Irritation - Eye**

No information available

Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Sensitization	Mutagenicity	Sub-chronic Toxicity
No information available	No information available	No information available

## Section 12 - Ecological Information

### Ecotoxicological Information

Acute Toxicity To Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
No information available	No information available	No information available	No information available	No information available

### Chemical Fate Information

<b>Biodegradability</b>	No information available
<b>Chemical Oxygen Demand</b>	No information available

To the best of our knowledge, the ecotoxicological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water supplies, wastewater, or soil.

## Section 13 - Disposable Considerations

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

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### Section 14 - Transport Information

<b>DOT (49 CFR 172)</b>	
Proper Shipping Name:	Flammable liquids, n.o.s.,(ethyl methacrylate, acrylic esters), 3, UN1993, PGIII
Identification Number:	UN1993
Marine Pollutant:	No
Special Provisions:	N/A
<b>Emergency Response Guidebook (ERG) #:</b>	<b>128</b>
<b>IATA (DGR):</b>	
Proper Shipping Name:	Flammable liquids, n.o.s.,(ethyl methacrylate, acrylic esters), 3, UN1993, PGIII
Class or Division:	3.2
UN or ID Number:	UN1993
Packaging Instructions:	
<b>Emergency Response Guidance (ICAO)#:</b>	
<b>IMO (IMDG):</b>	
Proper Shipping Name:	Flammable liquids, n.o.s.,(ethyl methacrylate, acrylic esters), 3, UN1993, PGIII
Class or Division:	3
UN or ID Number:	UN1993
Special Provisions & Stowage/Segregation:	None
<b>Emergency Schedule (EmS)#:</b>	
<b>Other Information:</b>	<b>Flash point = 43°C</b>

### Section 15 - Regulatory Information

#### US Federal Regulations

Clean Air Act: HAP/ODS

This product contains hazardous air pollutants (HAP's), as defined by the U. S. Clean Air Act. They are as follows:

- NONE

This product does not contain any Class1 or Class 2 ODS.

Clean Water Act: Priority Pollutant

This product contains the following Hazardous Substances as defined by the CWA:

- NONE

This product does not contain any substances that are a Priority Pollutant or Toxic Pollutant under the CWA.

FDA: Food Packaging Status

This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food additive.

Occupational Safety and Health Act

This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard. Its hazards are:

- Immediate (acute) health hazard
- Delayed (chronic) health hazard
- Reactive hazard

RCRA

This product is considered to be a hazardous waste under RCRA (40 CFR 261) RCRA Code:

- Ethyl methacrylate, CAS# 97-63-2, RCRA Code: U118
- Characteristic of Ignitability, RCRA Code: D001

SARA Title III: Section 302 (TPQ)

This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances that carry a TPQ.

SARA Title III: Section 302 (RQ)

This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List):

- Ethyl Methacrylate CAS# 97-63-2, RQ(Lbs): 1000

SARA Title III: Section 311-312:

This product is considered hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are:

- Immediate (acute) health hazard
- Delayed (chronic) health hazard
- Reactive hazard

SARA Title III: Section 313:

- This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: NONE

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TSCA Section 8(b): Inventory:	This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.
TSCA Significant New Use Rule:	None of the chemicals in this material have a SNUR under TSCA.

<b>State Regulations</b>	
CA Right-to-Know Law:	NONE
California No Significant Risk Rule:	NONE
MA Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2, Titanium Dioxide CAS #13463-67-7, Silicone Dioxide, CAS#7631-86-9.
NJ Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2, Titanium Dioxide CAS #13463-67-7, Silicone Dioxide, CAS#7631-86-9.
PA Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2, Titanium Dioxide CAS #13463-67-7, Silicone Dioxide, CAS#7631-86-9.
FL Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2, Silicone Dioxide, CAS#7631-86-9.
MN Right-to-Know Law:	Titanium Dioxide CAS #13463-67-7, Silicone Dioxide, CAS#7631-86-9.

### International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)

Titanium dioxide CAS # 13463-67-7 is on the DSL list. WHMIS = n/da Silicone Dioxide, CAS#7631-86-9 is on the DSL list. WHMIS = n/da Ethyl methacrylate CAS #97-63-2 is on the DSL List. WHMIS = B2, D2B. Tetraethylene glycol dimethacrylate, CAS# 109-17-1 is not on the DSL List. WHMIS Hydroxycyclohexyl phenyl ketone CAS n/da #947-19-3 is on the DSL list. WHMIS = n/da D&C Violet #2, CAS# 81-48-1 is not on the DSL List. WHMIS = n/da

EINECS: European Inventory:



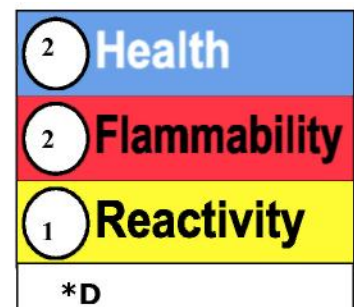
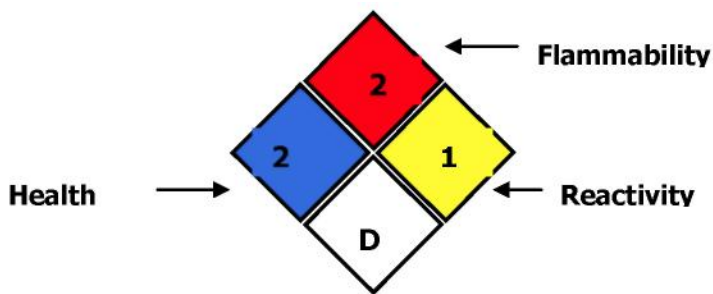
QF2:

HAZARD SYMBOLS: **Xi**: Irritant, **F**: Flammable

RISK PHRASES: **R22**: Harmful if swallowed, **R36/37/38**: Irritating to eyes, respiratory system, and skin, **R43**: May cause sensitization by skin contact. SAFETY PHRASES: **S18**: Handle and open container with care, **S24/25**: avoid contact with skin and eyes, **S36/37**: Wear suitable protective clothing and gloves, **S38**: in case of insufficient ventilation, wear suitable respiratory equipment, **S46**: If swallowed seek medical advice immediately and show this container or label.

## Section 16 - Other Information

### Hazard Rating System (Pictograms)



### NFPA:

\* - Respiratory protection may be necessary depending on conditions of use. Refer to Section VIII of this MSDS for respiratory protection guidelines.

15 mg/m<sup>3</sup> (total dust) 5 mg/m<sup>3</sup> (respirable dust) 10 mg/m<sup>3</sup>

OSHA PEL for nuisance dust:

ACGIH PEL for nuisance dust:

Revised Sections since Last Version:

Changes:

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