

Material Safety Data Sheet CRYSTAL NAILS EXTREME TITANIUM GEL BLUE Page 1 of 5**Section 1 – Identification of the Substance/Preparation and of the Company/Undertaking****Product Name:** CRYSTAL EXTREME TITANIUM GEL BLUE

MSDS Prepared by: JRR

Chemical Name: N/A**Family:** UV GELS**Manufacturer/Distributor:** Litrox Factory Investments LLC (443960-91)US 8130 SW Portland, Oregon,
Beaverton-Hillsdale Highway 97225.**Product Use:** NAIL GEL**Product #:** 4020172**Section 2 - Composition/Information on Ingredients**

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure OSHA TWA/STEL TW	Limits ACGIH A/STEL	Carcinogen IARC/NTP/OSHA	%
Polyurethane Acrylate Oligomer	Exempt N/E		Di-Hema Trimethylhexyl Dicarbamate*	N/E N/E		Not Listed	70-80
Trimethylolpropane Trimethacrylate esters	3290-92-4 221-950-4		Trimethylolpropane Trimethacrylate	N/E N/E		Not Listed	12-16
Tetraethylene glycol dimethacrylate	109-17-1	203-653-1	PEG-4 Dimethacrylate	N/E	N/E	Not Listed	2-5
Hydroxycyclohexyl phenyl ketone	947-19-3 213-426-9		Hydroxycyclohexyl phenyl ketone	N/E N/E		Not Listed	0-2
FD&C Blue #1	3844-45-9	223-339-8	Blue 1/CI42090	N/E	N/E	Not Listed	0-1
D&C Violet #2	81-48-1	201-353-5	CI60725	N/E	N/E	Not Listed	0-1
N/E - None Established N/R - Not Reviewed	N/DA - No Data Available N/A - Not Available		* See section 16				

Polyurethane Acrylate Oligomer: Hazard Symbol: Xi Risk Phrases: R36/37/38 Safety Phrases: S3/7, S36/37, S62**Trimethylolpropane Trimethacrylate Esters:** Hazard Symbol: Xi Risk Phrases: R36/37/38 Safety Phrases: S26**Tetraethylene Glycol Dimethacrylate:** Hazard Symbol: Xi Risk Phrases: R36/38 Safety Phrases: S21, S24/25, S26, S41

See Section 16 for Risk and Safety Phrase

Section 3 - Hazards Identification**EMERGENCY OVERVIEW**

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

- 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	No specific information available. Contains materials that are essentially nonirritating, but contact may cause slight transient irritation.
Skin	No specific information available. 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	No specific information available. Contains materials that may be practically nontoxic.
Inhalation	No specific information available. Low volatility makes vapor inhalation unlikely. Aerosol can be irritating.
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 and seek medical attention.
First Aid for Skin	Remove contaminated clothing and wash contact area with soap and water for 15 minutes.
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.

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First Aid for Ingestion If appreciable quantities are swallowed, seek medical attention.

Section 5 - Fire Fighting Measures

Flash Point(°F/°C)	Flammable Limit(vol%)	Auto-ignition Temperature(vol%)
>212 °F/100 °C Setaflash	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 Instructions: Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment 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 Spontaneous polymerization can occur. Although material is non-flammable please try to eliminate all ignition sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Dike and recover large spills. Soak up small spills with inert solids (such as vermiculite, clay) and sweep/shovel into disposal container. Wash spill area with strong detergent and water solution; rinse with water, but minimize water use during clean-up. 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. Dispose and report per regulatory requirements if necessary. Please prevent washings from entering waterways.

Section 7 - Handling and Storage

Handling Avoid contact with skin and eyes. Avoid breathing vapor. Keep container closed when not in use. Avoid prolonged exposure to light. 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.
 Storage Store in a cool place, away from heat and light. Store at temperatures below 100°F.
 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.
 Eye/ Face Protection Chemical splash goggles.
 Skin Protection Impervious gloves (Neoprene).
 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

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Appearance		Odor & Odor Threshold	pH	Specific Gravity	Viscosity	% Volatile	
Clear/Pink , mobile viscous gel		characteristic acrylate odor	NA	(H2O=1) : 1.12	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)
Not applicable	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%)			
>212 °F/100 °C Setflash		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 , 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	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation - skin	Irritation - Eye
No information available	No information available	No information available	No information available	No information available

Since this product contains a very low concentration of active components, the primary toxicological information is derived from the oligomers. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Sensitization	Mutagenicity	Sub-chronic Toxicity
N/DA N/DA		N/DA

Section 12 - Ecological Information

Ecotoxicological Information

Acute Toxicity to Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
N/DA N/DA		N/DA	N/DA	N/DA

Chemical Fate Information

Biodegradability	N/DA
Chemical Oxygen Demand	N/DA

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

Non-contaminated, properly inhibited product is not a RCRA hazardous waste. It is the generators responsibility to determine what is classified as a hazardous waste. Comply with all federal, state, and local regulations.
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.

Section 14 - Transport Information

DOT (49 CFR 172)	
Proper Shipping Name:	Non-Regulated Material
Identification Number:	N/A
Marine Pollutant:	No
Special Provisions:	None
Emergency Response Guidebook (ERG) #:	N/A
IATA (DGR):	
Proper Shipping Name:	Non-Regulated Material
Class or Division:	N/A

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UN or ID Number:	N/A
Packaging Instructions:	None
Emergency Response Guidance (ICAO)#:	N/A
IMO (IMDG):	
Proper Shipping Name:	Non-Regulated Material
Class or Division:	N/A
UN or ID Number:	N/A
Special Provisions & Stowage/Segregation:	None
Emergency Schedule (EmS)#:	N/A
Other Information:	Flash point >100°C

Section 15 - Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following HAP's or ODS: <ul style="list-style-type: none"> Benzophenone CAS #119-61-9 (HAP) No ODS's.
Clean Water Act: Priority Pollutant	This product contains no chemicals listed under the U. S. Clean Water Act Priority Pollutant List.
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: <ul style="list-style-type: none"> Immediate (acute) health hazard Delayed (chronic) health hazard Reactive hazard
RCRA	This product is not considered to be a hazardous waste under RCRA (40 CFR 261).
SARA Title III: Section 302 (TPQ)	This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances.
SARA Title III: Section 302 (RQ)	This product contains no chemicals regulated under Section 304 as extremely hazardous chemical for emergency release notification (" CERCLA" List).
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: <ul style="list-style-type: none"> Immediate (acute) health hazard Delayed (chronic) health hazard Reactive hazard
SARA Title III: Section 313:	This product contains no chemicals 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.
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 listed have a SNUR under TSCA.

State Regulations


CA Right-to-Know Law:	NONE
California No Significant Risk Rule:	NONE
MA Right-to-Know Law:	This product contains no hazardous chemicals on the Massachusetts Substance List.
NJ Right-to-Know Law:	This product contains the following hazardous components subject to disclosure under New Jersey Right-To-Know legislation: NONE
PA Right-to-Know Law:	This product contains the following hazardous components subject to disclosure under Pennsylvania Right-to-Know legislation: NONE
FL Right-to-Know	This product contains the following hazardous components subject to disclosure under Florida Right-to-Know legislation: NONE
MN Right-to-Know	This product contains the following non-hazardous components subject to disclosure under Minnesota Right-to-Know legislation: Benzophenone CAS #119-61-9

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International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)	Benzophenone CAS #119-61-9 is on the DSL list. WHMIS = n/da Hydroxycyclohexyl phenyl ketone CAS #947-19-3 is on the DSL list. WHMIS = n/da Tetraethylene glycol dimethacrylate, CAS# 109-17-1 is not on the DSL List. WHMIS = n/da Trimethylolpropane Trimethacrylate esters CAS# 3290-92-4 is on the DSL List. WHMIS = n/da
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Labeling according to EC Directives – 1999/45/EC

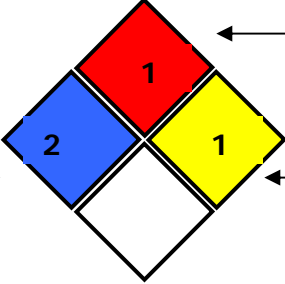
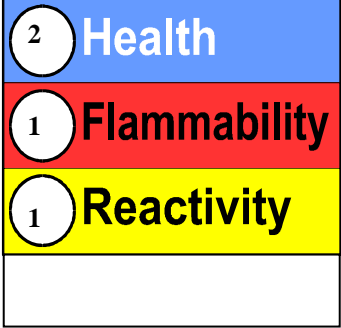
European Community: 	Crystal Extreme Titanium Gel Blue: <ul style="list-style-type: none"> HAZARD SYMBOLS: Xi: Irritant RISK PHRASES: R20: Harmful by inhalation R43: May cause sensitization by skin contact. SAFETY PHRASES: S24/25: Avoid contact with skin and eyes, S28A: After contact with skin, wash immediately with plenty of water, S37: Wear suitable protective gloves, S45: In case of accident, or if you feel unwell, seek medical advise immediately (show the label where possible)
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Section 16 - Other Information

EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

Hazard Symbols: Xi – Irritants
Risk Phrases: R36/37/38 Irritating to eyes, respiratory system and skin
Safety Phrases: S3/7 Keep container tightly closed in a cool place; S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S36/37 Wear suitable protective clothing and gloves; S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

Hazard Rating System (Pictograms)

NFPA:		HMIS:	
	Health →	Flammability ←	
		Reactivity ←	

OSHA PEL for nuisance dust: 15 mg/m³ (total dust) 5 mg/m³ (respirable dust)

ACGIH PEL for nuisance dust: 10 mg/m³

Revision History:	03/03/09 Initial Issue * Most Crystal Nails gels are composed of oligomers made primarily from urethane methacrylates. Crystal Nails is using the designation Di HEMA Trimethylhexyl Dicarbamate, the official INCI name of urethane dimethacrylate, which is substantially the equivalent of Polyurethane Acrylate Oligomer.

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