

Material Safety Data Sheet

CRYSTAL NAILS UV TOPCOAT Page 1 of 1

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

Material/Item Name: UV TOPCOAT

MSDS Initial Approval Date: 11/29/2000

Chemical Name: LACQUER

MSDS Prepared by BSQ

Family: TOP COAT

Manufacturer / Distributor : Litrox Factory Investments LLC (443960-91)

US 8130 SW Portland, Oregon,

Beaverton-Hillsdale Highway 97225.

Product Use: NAIL TOP COAT

Product #: 1002617

Section 2 - Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure	Limits	Carcinogen	%
				OSHA TWA/STEL	ACGIH TWA/STEL		
Ethyl Acetate	141 - 78 - 6	205-500-4	Ethyl Acetate	400 ppm	400 ppm	Not Listed	40-45
Isobutyl Acetate	110 - 19 - 0	203-745-1	Butyl Acetate	150 ppm	150 ppm	Not Listed	25-30
Methyl Ethyl Ketone	78 - 93 - 3	201-159-0	MEK	200 ppm	200 ppm	Not Listed	10-15
Nitrocellulose	9004-70-0	N/E	Collodion	400 ppm	400 ppm	Not Listed	5-10
Isopropyl Alcohol	67-63-0	200-661-7	Isopropyl Alcohol	400 ppm	400 ppm	3/no/no	5-10
Acrylate Copolymers	25035-69-2	N/E	Acrylates Copolymer	N/E	N/E	Not Listed	0-1
Benzophenone	119-61-9	204-337-6	Benzophenone	N/E	N/E	Not Listed	0-1
D&C Violet # 2	81-48-1	N/E	CI60725	N/E	N/E	Not Listed	0-1

N/E - None Established

N/DA - No Data Available

N/R - Not Reviewed

N/A - Not Applicable

Hazard Symbols: F, Xi Risk Phrases: R11, R20, R36/37/38 Safety Phrases: S7/9, S16, S26, S33, S36/37, S45, S61

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

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

- May cause eye irritation.
- Flammable liquid and vapor
- May cause skin irritation.
- Avoid prolonged or repeated breathing of gases, vapors or mists.



Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry Inhalation, skin contact, eye contact

Eye Exposure causes eye irritation. Symptoms include stinging, tearing, redness and swelling.

Skin Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying, cracking, and skin burns.

Ingestion Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting.

Inhalation Vapor and mist are irritating to mucous membranes. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

Sub-Chronic Effects May cause headaches, nausea, vomiting and narcotic effect if over-exposed.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 4 - First Aid Measures

First Aid for Eye If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently for 15 minutes with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

First Aid for Skin Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.

First Aid for Inhalation Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, seek medical attention.

First Aid for Ingestion If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Seek medical attention for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Revised Date: 11/19/2004 | Replaces Date: 09/29/2004

CRYSTAL NAILS UV TOPCOAT Page 2 of 2

Section 5 - Fire Fighting Measures

Flash Point(°F/°C)	Flammable Limit(vol%)	Auto-ignition Temperature(vol%)
Tag Closed Cup: 68°F/20°C	400 ppm	750 ° F - 900 ° F
Method:		
Extinguishing Media:	Foam, dry chemical, cold water spray.	
Fire Fighting Instructions:	Wear self-contained breathing apparatus and protective clothing. USE WATER WITH CAUTION. Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a safe distance and protected location.	
Unusual Hazards:	Flammable. When exposed to heat and flame, material is a fire explosion hazard. It may produce toxic products CO, Carbon dioxide and oxides of nitrogen. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. <u>Prevent buildup of vapors or gases to explosive concentrations.</u>	

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. 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.
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Section 7 - Handling and Storage

Handling	Keep containers cool and dry. Keep away from heat, light and ignition sources. Avoid breathing high vapor concentrations. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	Store in a well ventilated area. Store @ 70° + 15° F, allow some air space above liquid level. Keep containers closed while not in use.
Explosion Hazard	Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Section 8 - Exposure Controls / Personal Protective Equipment

Engineering Controls	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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Personal Protective Equipment

General	For open systems where contact is likely, wear long sleeves, chemical resistant gloves and chemical goggles. Provide eye wash stations and showers.
Eye/ Face Protection	Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses.
Skin Protection	Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
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 air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Material Safety Data Sheet

MSDS#: KTC112900-KYS

CRYSTAL NAILS UV TOPCOAT

Section 9 - Physical and Chemical Properties

Appearance Clear, viscous liquid	Odor & Odor Threshold fruity ester odor	pH NA	Specific Gravity (H ₂ O=1):0.98	Viscosity 300-400 cps	% Volatile W/W % : 99+		
Boiling Point/ Freezing Point 170° F	Decomposition Temperature N/DA	Octanol/Water Partitioning Coefficient Log Po/w N/DA	Vapor Pressure: N/DA	Vapor Density	Evaporation Rate (20°C) NA	Ignition NA	Solubility In Water Insoluble

(Air=1):1

Flash Point(°F/°C) Tag Closed Cup: 68°F/20°C	Flammable Limit (vol%) 400 ppm	Auto-ignition Temperature (vol%) 750 ° F - 900 ° F
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Section 10 - Stability and Reactivity

Stability: Stable	Incompatibility (Materials to Avoid): Avoid oxidizing agents, acids & bases (heat)
Hazardous Decomposition Products: Heated material produces NO ₂ , CO ₂ , CO	Hazardous Polymerization: May occur
Conditions to Avoid: Heat, flame, ignition sources.	

Section 11 - Toxicological Information

Acute Oral Toxicity Oral LD50 (rat) : 3.2-6.4g/kg	Acute Dermal Toxicity Dermal LD50 (rabbit): >20mL/kg	Acute Inhalation Toxicity Inhalation LC50 (rat) : 3500 - 8000 ppm/4 hours	Irritation - skin Rabbit : slight	Irritation - Eye Rabbit : slight
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Since this product contains a very low concentration of active components, the primary toxicological information is derived from the aliphatic hydrocarbons. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Sensitization N/DA	Mutagenicity N/DA	Sub-chronic Toxicity N/DA
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Section 12 - Ecological Information

Ecotoxicological Information

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

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.

Section 14 - Transport Information

DOT (49 CFR 172)	
Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl acetate, isobutyl acetate), 3, UN1993, PGII
Identification Number:	UN1993
Marine Pollutant:	No
Special Provisions:	T8, T31
Emergency Response Guidebook (ERG) #:	128
IATA (DGR):	

Revised Date:11/19/2004 | Replaces Date: 09/29/2004

Material Safety Data Sheet

MSDS#: KTC112900-KYS

CRYSTAL NAILS UV TOPCOAT

Page 4 of 4

Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl acetate, isobutyl acetate), 3, UN1993, PGII
Class or Division:	3
UN or ID Number:	UN1993
Packaging Instructions:	
Emergency Response Guidance (ICAO)#:	
IMO (IMDG):	
Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl acetate, isobutyl acetate), 3, UN1993, PGII
Class or Division:	3.2
UN or ID Number:	UN1993
Special Provisions & Stowage/Segregation:	None
Emergency Schedule (EmS)#:	
Other Information:	Flash point = 20°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"> Methyl Ethyl Ketone CAS #78-93-3 (HAP) Benzophenone CAS #119-61-9 (HAP) This product contains no ODS's.
Clean Water Act: Priority Pollutant	The following ingredients are listed as hazardous pollutants under the CWA: <ul style="list-style-type: none"> Isobutyl Acetate CAS #110-19-0 Isopropyl alcohol CAS #67-63-0 None of the ingredients are listed as primary pollutants nor are they listed as toxic pollutants.
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 hazardous under the OSHA Hazard Communication Standard. Its hazards are: <ul style="list-style-type: none"> Immediate (acute) health hazard <u>Fire hazard</u>
RCRA	This product contains chemicals considered to be hazardous waste under RCRA (40 CFR 261): <ul style="list-style-type: none"> Ethyl Acetate CAS #141 - 78 - 6 RCRA Code: U112, <u>Methyl Ethyl Ketone CAS #78 - 93 - 3 RCRA Code: U159.</u>
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 the following chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): <ul style="list-style-type: none"> Ethyl Acetate CAS #141-78-6 RQ (Lbs) 5000 Isobutyl Acetate CAS# 110-19-0 RQ (Lbs) 5000 Methyl Ethyl Ketone CAS #78-93-3 RQ (Lbs) 5000
SARA Title III: Section 311-312:	This product is considered to be 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 <u>Fire hazard</u>
SARA Title III: Section 313:	This product contains the following chemical 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: <ul style="list-style-type: none"> Methyl Ethyl Ketone, CAS #78 - 93 - 3 Isopropyl alcohol CAS #67-63-0.
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.

Material Safety Data Sheet

MSDS#: KTC112900-KYS

CRYSTAL NAILS UV TOPCOAT

Page 5 of 5

State Regulations

CA Right-to-Know Law California No Significant Risk Level:	Ethyl Acetate CAS 141 - 78 - 6 ; Methyl Ethyl Ketone CAS 78-93-3, Isopropyl Alcohol CAS 67-63-0, Nitrocellulose CAS #9004-70-0, Isobutyl acetate CAS #110-19-0. NONE
MA Right-to-Know Law:	Ethyl Acetate CAS 141 - 78 - 6 ; Methyl Ethyl Ketone CAS 78-93-3, , Isopropyl Alcohol CAS 67-63-0, Nitrocellulose CAS #9004-70-0, Isobutyl acetate CAS #110-19-0.
NJ Right-to-Know Law:	Ethyl Acetate CAS 141 - 78 - 6 ; Methyl Ethyl Ketone CAS 78-93-3, , Isopropyl Alcohol CAS 67-63-0, Nitrocellulose CAS #9004-70-0, Isobutyl acetate CAS #110-19-0.
PA Right-to-Know Law:	Ethyl Acetate CAS 141 - 78 - 6 ; Methyl Ethyl Ketone CAS 78-93-3, Isopropyl Alcohol CAS 67-63-0, Nitrocellulose CAS #9004-70-0, Isobutyl acetate CAS #110-19-0.
FL Right-to-Know Law:	Ethyl Acetate CAS 141 - 78 - 6 ; Methyl Ethyl Ketone CAS 78-93-3, , Isopropyl Alcohol CAS 67-63-0, Nitrocellulose CAS #9004-70-0, Isobutyl acetate CAS #110-19-0.
MN Right-to-Know Law:	Ethyl Acetate CAS 141 - 78 - 6 ; Methyl Ethyl Ketone CAS 78-93-3, , Isopropyl Alcohol CAS 67-63-0, Benzophenone CAS #119-61-9, Nitrocellulose CAS #9004-70-0, Isobutyl acetate CAS #110-19-0.

International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)

Ethyl acetate CAS #141-78-6 is on the DSL list. WHMIS = B2, D2B.
Isobutyl acetate CAS #110-19-0 is on the DSL list.
Methyl ethyl ketone CAS #78-93-3 is on the DSL list. WHMIS = B2, D2A.
Nitrocellulose CAS #9004-70-0 is on the DSL list. WHMIS = B4, D2B, F.
Isopropyl alcohol CAS #67-63-0 is on the DSL list. WHMIS = B2, D2B.
Benzophenone CAS #119-61-9 is on the DSL list.
D & C Violet #2 CAS #84-48-1 n/a

EINECS: European Inventory:

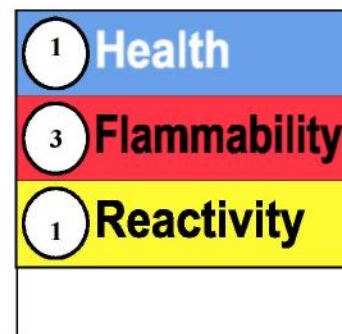
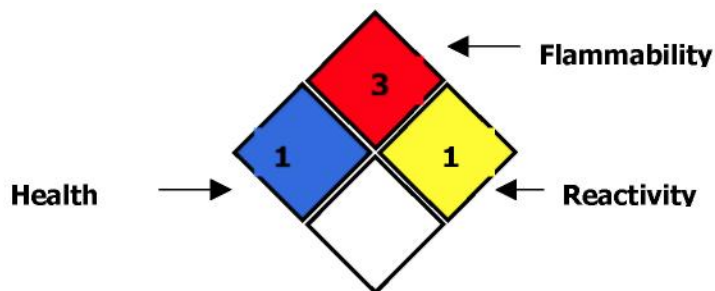
Keyshield:

HAZARD SYMBOLS: **Xn, F**: Harmful, Highly Flammable
RISK PHRASES: **R11**, highly flammable, **R20**: Harmful by inhalation, **R36/37/38**: Irritating to eyes, respiratory system and skin
SAFETY PHRASES: **S7/9**: keep container tightly closed and in a well ventilated place, **S16**: keep away from sources of ignition- no smoking, **S24/25**: In case of contact with eyes, rinse immediately with plenty of water and seek medical advise, **S33**: take precautionary measures against static discharges, **S37/39**: wear suitable protective clothing & gloves, **S45**: In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible), **S61**: Avoid release to the environment.
Refer to special instruction/Safety data sheets



Section 16 - Other Information

Hazard Rating System (Pictograms)



Revised Sections since Last Version: Section 2 & 13 content updates, format updates throughout.

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