

Material Safety Data Sheet **CRYSTAL NAILS COAT THINNER**

MSDS#: KIA022001-TKT
Page 1 of 1

Section 1 - Identification of the Substance/Preparation and of the Company/Undertaking

Material / Item Name: COAT THINNER MSDS Initial Approval Date 02/20/2001
Chemical Name: N/A MSDS Prepared by: BSQ

Family: Solvent **Manufacturer/Distributor:** Litrox Factory Investments LLC (443960-91)
US 8130 SW Portland, Oregon,
Beaverton-Hillsdale Highway 97225.

Product Use: Cleansing Agent

Product #: 1001147

Section 2 - Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure OSHA	Limits ACGIH	Carcinogen	%
	141-78-6			TWA/STEL	TWA/STEL	IARC/NTP/OSHA	
<u>Ethyl Acetate</u>		205-500-4	<u>Ethyl Acetate</u>	<u>400 ppm</u>	<u>400 ppm</u>	Not Listed	50-60
<u>n-Butyl Acetate</u>	123-86-4		<u>Butyl Acetate</u>	<u>150 ppm</u>	<u>150 ppm</u>	Not Listed	15-25
<u>Methyl Ethyl Ketone</u>		204-658-1	MEK	<u>200 ppm</u>	<u>200 ppm</u>	Not Listed	15-25
<u>Isopropyl Alcohol</u>	78-93-3		<u>Isopropyl Alcohol</u>	<u>400 ppm</u>	<u>400 ppm</u>	3/no/no	5-10
N/E - None Established N/R - Not Reviewed	201-159-0 67-63-0						

Hazard Symbols: F, Xi **Risk Phrases:** R11, R20, R36/37/38 **Safety Phrases:** S7/9, S16, S26, S36/37, S45, S61
 200-661-7
 N/DA - No Data Available
 N/A - Not Applicable

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

This information may be based on findings from related or similar materials.

- **Flammable liquid and vapor!**
- May cause allergic skin reaction.
- May cause eye irritation.
- May cause respiratory tract irritation.



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 and 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 membrane. 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: It 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 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.

Material Safety Data Sheet **CRYSTAL NAILS COAT THINNER**

MSDS#: KIA022001-TKT

Page 2 of 2

Section 5 - Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
TAG Closed: 68°F/20°C	400 ppm	N/DA

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. Prevent buildup of vapors or gases to explosive concentrations.

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	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 well ventilated area. Store @ 70°F+/- 15°F (21°C+/-8°C), 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 move 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	Facilities storing or utilizing this material should be equipped with an eye facility and safety shower. Use process enclosures local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.
----------------------	---

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	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.
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

Revised Date:11/29/2004 | Replaces Date: 02/20/2001

Material Safety Data Sheet CRYSTAL NAILS COAT THINNER

Page 3 of 3

found in 29 CFR 1910.134 or European Standard EN 149.

Section 9 - Physical and Chemical Properties

Appearance Clear mobile liquid	Odor & Odor Threshold Fruity, pungent, mix odor	pH NA	Specific Gravity (H ₂ O=1):0.98	Viscosity N/DA	% Volatile W/W %: 99+		
Boiling Point/ Freezing Point 170°F(77°C)	Decomposition Temperature N/DA	Octanol/Water Partitioning Coefficient Log Po/w N/DA	Vapor Pressure: N/A	Vapor Density (Air=1): 1	Evaporation Rate N/A	Ignition N/A	Solubility In Water (20°C) Insoluble
Flash Point (°F/°C) TAG Closed: 68°F/20°C		Flammable Limit (vol%) 400 ppm		Auto-ignition Temperature (vol%) N/DA			

Section 10 - Stability and Reactivity

Stability: Stable	Incompatibility (Materials to Avoid): Avoid oxidizing agents, acids & bases (heat)
Hazardous Decomposition Products: Heated material produce NO ₂ , CO ₂ , CO	Hazardous Polymerization: Will not occur
Conditions to Avoid: Heat, flame, ignition sources.	

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
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

Biodegradability	No information available
Chemical Oxygen Demand	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.

Section 14 - Transport Information

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

Revised Date: 11/29/2004 | Replaces Date: 02/20/2001

Material Safety Data Sheet **CRYSTAL NAILS COAT THINNER**

UN or ID Number:	UN1993
Packaging Instructions:	
Emergency Response Guidance (ICAO)#:	
IMO (IMDG):	
Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl acetate, n-butyl 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 hazardous air pollutants (HAPs): <ul style="list-style-type: none"> Methyl Ethyl Ketone, CAS# 78-93-3 There are no ODS's (ozone depleting substances) as defined by the U. S. Clean Air Act.
Clean Water Act: Priority Pollutant	This product contains the following chemicals listed under the U. S. Clean Water Act Priority Pollutant and Hazardous Substance List: <ul style="list-style-type: none"> Butyl Acetate, CAS# 123-86-4
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 Fire hazard
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 Methyl Ethyl Ketone, CAS# 78-93-3, RCRA Codes D035, U159 May contain Characteristic of Ignitability: RCRA Code: D001
SARA Title III: Section 302 (TPQ)	This product contains no chemicals regulated under Section 302 as extremely hazardous substances that carry a TPQ.
SARA Title III: Section 302 (RQ)	This product contains chemicals regulated under Section 302 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 Butyl Acetate, CAS# 123-86-4, RQ (Lbs): 5000 <u>Methyl Ethyl Ketone, CAS# 78-93-3, RQ (Lbs): 5000</u>
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 chemicals which are 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"> Isopropyl Alcohol, CAS# 67-63-0 <u>Methyl Ethyl Ketone, CAS# 78-93-3</u>
TSCA Section 8(b): Inventory:	This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements. None of the chemicals in this material have a SNUR under TSCA.

State Regulations

CA Right-to-Know Law: California No	Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3 NONE
MA Right-to-Know Law:	Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3
NJ Right-to-Know Law:	Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3
PA Right-to-Know Law:	Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3
FL Right-to-Know Law:	Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3
MN Right-to-Know Law:	Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3

Material Safety Data Sheet **CRYSTAL NAILS COAT THINNER**

MSDS#: KIA022001-TKT

Page 5 of 5

International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)

Ethyl Acetate CAS #141-78-6 is on the DSL list. WHMIS = B2, D2B
Isopropyl Alcohol CAS #67-63-0 is on the DSL list. WHMIS = B2, D2B
Butyl Acetate CAS #123-86-4 is on the DSL list. WHMIS = B2, D1B, D2B
Methyl Ethyl Ketone CAS 78-93-3 is on the DSL list. WHMIS = B2, D2A

EINECS: European Inventory:

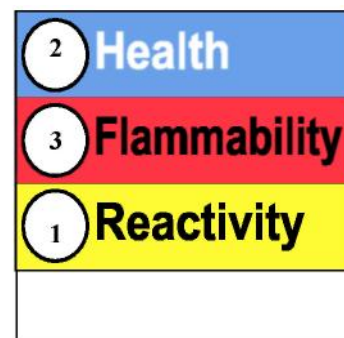
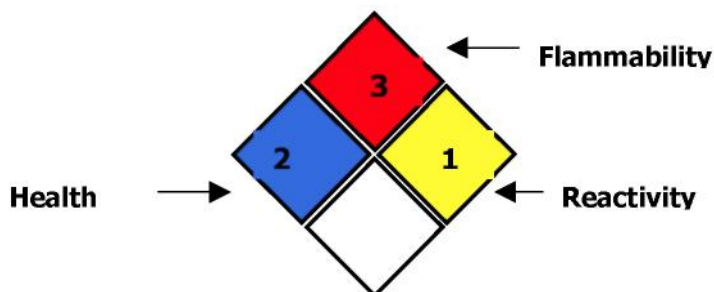


Crystal Nails Coat Thinner:

- 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, 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)



NFPA:

Revised Sections since Last Version:

Overall format and content change to all sections

The information presented herein was obtained from sources considered to be reliable. However, this information is provided without any warranty, expressed or implied, regarding its correctness or suitability for consumers intended use and/or application. For this and other reasons, we assume no responsibility and expressly disclaim liability for loss, damage or expense arising out of any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared expressly for this product. Use the materials only as directed. If the product is used as a component of another product, the information contained within the MSDS may not be applicable. If one could have any concerns with or problems understanding this MSDS form, please direct all questions to INFOTRAC, Chemical Emergency Resources System at 1(800) 535-5053.