

Material Safety Data Sheet CRYSTAL NAILS CLEANSER Page 1 of 1**Section 1 – Identification of the Substance/Preparation and of the Company/Undertaking****Material / Item Name:** Cleanser

MSDS Approval Date: 10/12/2000

Chemical Name: N/A

MSDS Prepared by: BSQ

Family: Cleansing Agent**Manufacturer/Distributor:** Litrox Factory Investments LLC (443960-91)

US 8130 SW Portland, Oregon,

Beaverton-Hillsdale Highway 97225.

Product Use: Wiping Solution**Product #:** 1001763-64-65**Section 2 - Composition/Information on Ingredients**

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure OSHA	Limits ACGIH	Carcinogen IARC/NTP/OSHA	%
				TWA/STEL	TWA/STEL		
<u>Isopropyl Alcohol</u>	67-63-0	200-661-7	<u>Isopropyl Alcohol</u>	<u>400 ppm</u>	<u>400 ppm</u>	Not Listed	75-80
<u>Ethyl Acetate</u>	141 - 78 - 6	205-500-4	<u>Ethyl Acetate</u>	<u>400 ppm</u>	<u>400 ppm</u>	Not Listed	20-25

N/E - None Established N/DA - No Data Available N/A -
N/R - Not Reviewed Not Applicable**Hazard Symbols:** Xi, F **Risk Phrases:** R11, R36/37/38, R66, R67 **Safety Phrases:** S7/9, S16, S26, S33, S37/39, S45**Section 3 - Hazards Identification****EMERGENCY OVERVIEW**

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

- **Flammable liquid and vapor!**
- May cause eye irritation.
- May cause skin irritation.
- Avoid prolonged or repeated breathing of gases, vapors or mists.
- Please read entire MSDS for additional information.

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

Primary Route of Entry Inhalation, skin and ingestion.

Eye Vapors are irritating to the eyes. Splashes may cause severe irritation, with stinging, tearing, redness, and pain with possible corneal damage.

Skin Repeated/prolonged contact may cause drying of skin. Symptoms 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 Vapors are irritating to nasal passages and throat and may cause stupor or headache. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

Sub-Chronic Effects Significant exposure to this chemical may adversely affect people with chronic disease or may cause damage to the respiratory system, skin and eyes.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 4 - First Aid Measures

First Aid for Eye	Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.
First Aid for Skin	Wash thoroughly with soap and water. Remove contaminated clothing. Get medical help if discomfort persists.
First Aid for Ingestion	If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Seek medical attention for advice about whether to induce vomiting. If possible, do not leave individual unattended.
First Aid for Inhalation	Remove to fresh air. If having breathing difficulty, give oxygen. If breathing has stopped, give artificial respiration. Seek medical attention if discomfort persists.

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68°F/20°CFlammable Limit (vol%)
LEL: 2 % ; UEL: 11.4 %Auto-ignition Temperature (vol%)
N/DA**Method:**Extinguishing Media: Use CO₂, dry chemical for small fires, or alcohol type aqueous film forming foam.

Fire Fighting Instructions: If potential for exposure to vapors or products of combustion, wear complete personal

protective equipment including self contained breathing apparatus, with full face operated in pressure demand. Fight fire from a safe distance/protected location.

Unusual Hazards: Flammable. When exposed to heat and flame, material is a fire explosion hazard. Vapor is heavier than air and can travel considerable distance to source of ignition and flash back. Material creates a special hazard if it floats on water.

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 Closed containers exposed to temperature above (120 ° F) in transit or storage may develop vapor pressure. Open containers slowly. Ground all metal containers when transferring material. Wash face and hands thoroughly with soap and water after handling and before eating, drinking or smoking.

Storage Store in a cool , well ventilated area away from heat, sparks and flame. Keep containers closed when not in use. DO NOT STORE IN METAL CONTAINERS. Failure to comply with proper storage instructions will result in the material being non-refundable.

Explosion Hazard Flammable liquid. 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 Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses.

Skin Protection Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Neoprene and 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 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.

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Appearance		Odor & Odor Threshold	pH	Specific Gravity	Viscosity	% Volatile	
Clear, colorless, mobile liquid		fruity, pungent mix odor	N/A	(H ₂ O = 1):	N/A	W/W % : 99+	
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)
77°C	N/DA	N/DA	73 mm Hg @20°C	(Air=1): 3.0	(Butyl Acetate=1): 4.5	N/A	8.7 %
Flash Point (°F/°C)		Flammable Limit (vol%)		Auto-ignition Temperature (vol%)			
68°F/20°C		LEL: 2 % ; UEL: 11.4 %		N/DA			

Section 10 - Stability and Reactivity**Stability:**

Stable

Incompatibility (Materials to Avoid):Oxidizing Agent i.e. Hydrogen peroxide , Nitric Acid , Perchloric Acid,
Chromium Trioxide**Hazardous Decomposition Products:**

Carbon Monoxide

Hazardous Polymerization:

Will not occur

Conditions to Avoid: Heat, flames, ignition sources, and incompatibles**Section 11 - Toxicological Information**

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation – skin	Irritation - Eye
Mouse: LD50 = 3600 mg/kg;	N/ DA	Rat = 1030 ug/m3/16W	Skin, rabbit: LD50 = 12800 mg/kg.	N/ DA
Sensitization		Mutagenicity	Sub-chronic Toxicity	
N/ DA		Rat = 1030 ug/m3/16W	N/ DA	

Section 12 - Ecological Information

Ecotoxicological Inform Acute Toxicity to Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
The LC50/96-hour values for fish are over 100 mg/l.	N/ DA	N/ DA	N/ DA	N/ DA

Chemical Fate Information

Biodegradability	When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate.
Chemical Oxygen Demand	N/ DA

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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DOT (49 CFR 172)	
Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl acetate, isopropyl alcohol), 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, isopropyl alcohol), 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, isopropyl alcohol), 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:

NONE

Clean Water Act: Priority Pollutant

The following ingredients are listed as hazardous pollutants under the CWA:

- NONE

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-packaging additive.

Occupational Safety and Health Act

This product is considered to be hazardous under the OSHA Hazard Communication Standard. It's hazards are:

- Immediate (acute) health hazard
- Fire hazard

RCRA

This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261).

- Ethyl Acetate CAS# 141-78-6, RCRA Code: U112
- Characteristic of Ignitability, RCRA Code: D001

SARA Title III: Section 302 (RQ)

This product contains no chemicals regulated under Section 302 as extremely hazardous substances.

SARA Title III: Section 302 (TPQ)

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

- Ethyl Acetate CAS# 141-78-6, 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). It's hazards are:

- Immediate (acute) health hazard
- Fire hazard

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:

- 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.

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<u>State Regulations</u>	Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0
CA Right-to-Know Law: California No Significant Risk Rule:	NONE
MA Right-to-Know Law:	Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0
NJ Right-to-Know Law:	Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0
PA Right-to-Know Law:	Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0
FL Right-to-Know Law:	Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0
MN Right-to-Know Law:	Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0

International Regulations

CDSL: Canadian Inventory (on Ethyl Acetate CAS# 141-78-6 is on the DSL List. WHMIS = B2, D2B

Canadian Transitional List) Isopropyl Alcohol CAS #67-63-0 is on the DSL List. WHMIS = n/da

EINECS: European Inventory: CRYSTAL NAILS CLEANSER

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

RISK PHRASES: **R11**, highly flammable, **R36/37/38**: Irritating to eyes, respiratory system and skin, **R66**: Repeated exposure may cause skin dryness or cracking, **R67**: Vapours may cause drowsiness and dizziness.

SAFETY PHRASES: **S7/9**: keep container tightly closed and in a well ventilated place, **S16**: keep away from sources of ignition- no smoking, **S26**: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, **S33**: take precautionary measures against static discharges, **S37/39**: wear suitable gloves and eye/face protection, **S45**: In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible)



Section 16 - Other Information

Hazard Rating System (Pictograms)

NFPA:	HMIS:
<p>Health → 1 ← 3 Flammability ← 0 Reactivity</p>	<p>1 Health 3 Flammability 0 Reactivity</p>

Revised Sections since Last Version:
9/01/2005 Revisions.

Updated Section # 2.
Updated Section # 1 and 7.

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