

Material Safety Data Sheet

MSDS#: KIA112900-ABP

CRYSTAL NAILS PRIMER

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

Material/Item Name: PRIMER

MSDS Approval Date: 11/29/2000

Chemical Name: N/A

MSDS Prepared by: BSQ

Family: PRIMER

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

US 8130 SW Portland, Oregon,

Beaverton-Hillsdale Highway 97225.

Product Use: NAIL PRIMER

Product #: 1001775-76-77

Section 2 – Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure OSHA TWA/STEL	Limits ACGIH TWA/STEL	Carcinogen IARC/NTP/OSHA	%
Methacrylic Acid	79 -41-4	201-204-4	Methacrylic Acid	20 ppm	20 ppm	Not Listed	50-55
Butyl Acetate	123-86-4	204-658-1	Butyl Acetate	150 ppm	150 ppm	Not Listed	20-25
Butyl Methacrylate	97 -88-1	202-615-1	Butyl Methacrylate	N/E	N/E	Not listed	10-15
Ethanol	64-17-5	200-578-6	Alcohol Denat.	1000 ppm	1000 ppm	Not Listed	5-10

N/E - None Established

N/DA - No Data Available

N/R - Not Reviewed

N/A - Not Applicable

Hazard Symbols: C, Xi **Risk Phrases:** R7, R34, R36/37/38, R43 **Safety Phrases:** S7, S9, S15, S16, S26, S33, S36/37/39, S45

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

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

Harmful if absorbed through the skin.

Combustible liquid and vapor!

Causes severe burns to eyes, skin, lungs, and all exposed tissues. Heat or product contamination may cause hazardous decomposition.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry Ingestion, skin, inhalation

Eye Corrosive. May cause burns resulting in permanent damage.

Skin Corrosive. May cause burns resulting in permanent damage. May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material. This material is toxic.

Ingestion Inhalation Harmful if absorbed through the skin.

Sub-Chronic Effects Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

Corrosive and may cause burns resulting in permanent damage.

Prolonged or repeated overexposure at near lethal concentration causes kidney and liver damage.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 4- First Aid Measures

First Aid for Eye First In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical attention.

Aid for Skin First Aid Immediately flush skin with plenty of water. Remove contaminated clothing. Obtain medical attention if irritation develops or persists. Wash clothing before reuse.

for Inhalation First Aid Remove to fresh air. If not breathing, give CPR. If breathing is difficult, give oxygen. Get immediate medical attention.

for Ingestion If swallowed, do NOT induce vomiting. Have victim drink 8 - 10 ounces of water to dilute material in stomach. Get medical attention immediately. Never give anything by mouth to an unconscious person.

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Section 5- Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
149°F/65°C	No Data	N/DA

Method:

Extinguishing Media: Use water spray or fog, foam, dry chemical or Carbon dioxide.
Fire Fighting: As in any fire, wear self-contained positive-pressure breathing apparatus and full protective gear.
Instructions: Unusual Containers can build up pressure if exposed to heat (fire). Cool with water spray. Combustible
Hazards: liquid . Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

Section 6 - Accidental Release Measures

Spill or Release Procedures: Remove sources of ignition and ventilate area. Use a respirator and other protective equipment as outlined in Section 8. Absorb spill with inert material, then place in a chemical waste container. After removal, flush contaminated area with water and collect for disposal. Clean up spills immediately. Obey relevant local, state, and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. 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: Keep away from heat . Keep away from sparks , flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation . Ground and bond containers when transferring material . Use explosion -proof equipment . Follow all MSDS /label precautions even after the container is emptied because it may retain product residues . Wash thoroughly after handling.

Storage: Store in a cool, dry place. Do not store in direct sunlight. Keep container closed when not in use. Store above 17° C to avoid solidification.

Explosion Hazard: Do not allow temperature below freezing point. Material can burn. Limit indoor storage to approved areas. Avoid high temperatures and sources of ignition.

Section 8- Exposure Controls / Personal Protective Equipment

Engineering Controls: Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure. 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 chemical splash goggles and face shield.

Skin Protection: Personal protective equipment that provides a barrier to prevent dermal exposure to this substance is required. Wear protective rubber gloves.

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor/acid 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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Section 9- Physical and Chemical Properties

Appearance Clear, colorless liquid	Odor & Odor Threshold Pungent, irritating odor	pH 2.0 - 2.2	Specific Gravity 1.015	Viscosity 1.4 mPa's @ 20° C	% Volatile N/A
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Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure: mmHg	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
161°C/15.8°C	N/A	0.93	0.97 @25°C	(Air=1): >1	Slower than butyl acetate	N/A	100% (Soluble)

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
149°F/65°C	No Data	N/DA

Section 10- Stability and Reactivity

Stability: Incompatibility (Materials to Avoid):

Stable under normal storage conditions Free radical initiators, oxidizing agents, reducing agents, Uv light

Hazardous Decomposition Products: Hazardous Polymerization:

NONE

Will not occur under normal conditions

Conditions to Avoid:

Avoid high temperatures and sources of ignition. Polymerization may be initiated by contamination with peroxides, azo compounds, heavy metal ions, tertiary amines, and sulfur compounds. Polymerization is also induced by light. Atmospheric oxygen saturation of acrylic/ methacrylic monomers is necessary for stability. Avoid ultraviolet light. If the product solidifies, the inhibitor separates from the methacrylic acid. Thaw slowly without using direct heat. High temperatures may cause uninhibited methacrylic acid to polymerize. The inhibitor will redisperse once liquified.

Section 11- Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation – skin	Irritation - Eye
Oral LD50 (rat) : 2200mg/kg	Dermal LD50 (rabbit):500mg/kg	Inhalation LC50 (rat) : 7100 mg/m3 (4 h)	severe skin irritation	permanent damage
Sensitization	Mutagenicity	Sub-chronic Toxicity		
skin sensitization	N/ E	N/E		

Section 12- Ecological Information

Ecotoxicological Information

Acute Toxicity to Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
LC50: 85 mg/l (96 h)	N/E	EC50: 0.59 mg/l (96h)	N/ E	N/E

Chemical Fate Information

Biodegradability	N/E
Chemical Oxygen Demand	N/E

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. Material is acidic in nature, all precautions should be taking to avoid any exothermic reactions with the waste. 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

DOT (49 CFR 172)	
Proper Shipping Name:	Corrosive liquids, n.o.s., (methacrylic acid, butyl methacrylate), 8, UN1760, PGII
Identification Number:	UN1760
Marine Pollutant:	No
Special Provisions:	B2, T14
Emergency Response Guidebook (ERG) #:	154
IATA (DGR):	
Proper Shipping Name:	Corrosive liquids, n.o.s., (methacrylic acid, butyl methacrylate), 8, UN1760, PGII
Class or Division:	8
UN or ID Number:	UN1760
Packaging Instructions:	
Emergency Response Guidance (ICAO)#:	
IMO (IMDG):	
Proper Shipping Name:	Corrosive liquids, n.o.s., (methacrylic acid, butyl methacrylate), 8, UN1760, PGII
Class or Division:	8.2
UN or ID Number:	UN1760
Special Provisions & Stowage/Segregation:	
Emergency Schedule (EmS)#:	
Other Information:	Flash point = 65°C

Section 15- Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following ozone depleting substances or HAP's: • NONE This product does not contains any Class 1 or 2 Ozone Depleting Substances (ODS).
Clean Water Act: Priority Pollutant	The following ingredients are listed as hazardous substances or priority pollutants under the CWA: • n-butyl acetate CAS# 123-86-4 None of the chemicals listed in this product are listed as a 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 hazardous under the OSHA Hazard Communication Standard. Its hazard are: • Immediate (acute) health hazard • Fire hazard • Sudden release of pressure
RCRA	This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261): • No U or P Series Codes • Product may demonstrate the Characteristic of Corrosivity, D002
SARA Title III: Section 302 (RQ)	This product contains the following chemicals regulated under SARA 302: • NONE
SARA Title III: Section 302 (TPQ)	This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): • <u>n-butyl acetate</u> CAS# 123-86-4, RQ (Lbs): 5000
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 hazard are: • Immediate (acute) health hazard • Fire hazard • Sudden release of pressure
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. None of the chemicals in this material have a SNUR under TSCA.

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State Regulations CA Right-to-Know Law: California No Significant Risk Level:	Ethanol CAS #64-17-5, N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4 NONE
MA Right-to-Know Law:	Ethanol CAS #64-17-5, N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4, Butyl methacrylate CAS #97-88-1
NJ Right-to-Know Law:	Ethanol CAS #64-17-5, N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4, Butyl methacrylate CAS #97-88-1
PA Right-to-Know Law:	Ethanol CAS #64-17-5, N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4, Butyl methacrylate CAS #97-88-1
FL Right-to-Know Law:	Ethanol CAS #64-17-5, N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4, Butyl methacrylate CAS #97-88-1
MN Right-to-Know Law:	Ethanol CAS #64-17-5, N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4

International Regulations

CDSL: Canadian Inventory (on
Canadian Transitional List)

EINECS: European Inventory:



Ethanol CAS #64-17-5 is on the DSL list. WHMIS = B2, D2A.
N-butyl acetate CAS #123-86-4 is on the DSL list. WHMIS = B2, D1B, D2B.
Methacrylic Acid CAS #79-41-4 is on the DSL list. WHMIS = E
Butyl methacrylate CAS #97-88-1 is on the DSL list. WHMIS = B2, D2A, F.

B-5 Acid Based Primer:

- HAZARD SYMBOLS: **C, Xi**: Corrosive, Irritant
- RISK PHRASES: **R7**: may cause fire, **R34**: causes burns, **R36/37/38**: irritating to eyes, respiratory system and skin, **R43**: may cause sensitization by skin contact
- SAFETY PHRASES: **S7**: keep container tightly closed, **S9**: keep container in a well ventilated place, **S15**: keep away from heat, **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, **S36/37/39**: wear suitable protective clothing, 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>* - Respiratory protection may be necessary depending on conditions of use. Refer to Section VIII of this MSDS for respiratory protection guidelines.</p>	

Revised Sections since Last Version: All section headers, Section 2 contents, format updates throughout.

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Revised Date: 11/22/2004 | Replaces Date: 11/18/2003