

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Blend
PRODUCT NAME: T3 FIBER GEL Pink
TRADE NAME/PRODUCT CODE: 0038
PRODUCT USE: Organic Process Chemical
MANUFACTURER: Star Nail International, Inc.
ADDRESS: 29120 AVENUE PAINE
 VALENCIA, CA 91355
24 HR. EMERGENCY TELEPHONE: CHEMTEL: 813-248-0573 OR 1-800-255-3924
PREPARATION/UPDATE DATE: 01/02/2014
MSDS ID: M31-02

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:



Routes of Exposure: Inhalation, Skin or Eyes.

Acute Health Hazards: See section 11 for more information.

Eyes: Although no appropriate human or animal health effects are known to exist, this material is expected to cause slight irritation. Symptoms may include redness, tearing and excessive blinking. Severe irritant. Can cause redness, irritation, corneal opacity, permanent damage to the cornea.

Skin: It is suspected to be a slight skin irritant and sensitization hazard. May cause delayed skin irritation and blistering. Redness or rash and swelling of the affected area may occur. Prolonged contact may cause a more severe response such as ulcers and scarring. Although no appropriate human or animal health effects data are known to exist, this material is expected to be a slight skin absorption hazard.

Inhalation: No appropriate human or animal effects are known to exist but suspect slight respiratory tract irritation hazard if used at elevated temperatures or processes which generate an aerosol or mist. Symptoms of irritation may include coughing, mucous production and shortness of breath.

Ingestion: No appropriate human or animal effects are known to exist but is suspected to be an ingestion hazard.

Conditions Aggravated by Exposure: This material may cause an allergic skin reaction (sensitization) in susceptible individuals upon repeated exposure. May cause more significant skin irritation in people with pre-existing skin conditions.

Chronic Health Hazards: See section 11 for details.

Carcinogenicity: See section 11 for details.

Potential Environmental: See section 12 for details.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS #:	EINECS #	R Phrases	WT/WT %
01	Urethane Acrylate	NA	NA	NA	60.0-100.0
02	Methacrylic Acid	79-41-4	201-204-4	R21/22, R35	1.0-20.0
03	2-Hydroxyethyl Methacrylate	868-77-9	212-782-2	R36/38, R43	1.0-10.0
04	Photoinitiator	NA	NA	NA	1.0-10.0

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

- EYES:** If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
- SKIN:** Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.
- INHALATION:** Remove to fresh air. Seek immediate medical attention.
- INGESTION:** If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.
- CLOTHING:** Remove contaminated clothing, wash thoroughly before reuse.
- TREATMENT:** Treat symptoms conventionally, after thorough decontamination.
- NOTE TO PHYSICIANS:** None available.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:	Refer to Section 9 for details.
SUITABLE EXTINGUISHING MEDIA:	Chemical foam, carbon dioxide, dry chemical.
UNSUITABLE EXTINGUISHING MEDIA:	Water may not be effective in extinguishing this fire.
PRODUCTS OF COMBUSTION:	Oxides of Carbon
FIRE AND EXPLOSION HAZARDS:	High temperatures, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization.
SPECIAL FIRE FIGHTING PROCEDURES:	Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product. When involved in a fire, this product may ignite and decompose to produce carbon oxides. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and full protective equipment.
SENSITIVE TO MECHANICAL IMPACT:	No.
SENSITIVE TO STATIC DISCHARGE:	No.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Review Section 5 before proceeding with clean-up. Individuals involved must wear appropriate Personal Protective Equipment that is specified in Section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.
ENVIRONMENTAL PRECAUTIONS:	Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. 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.
METHODS FOR CONTAINMENT:	Dike and contain spill with inert, non-combustible material (e.g. sand or earth).
METHODS FOR CLEAN-UP:	Evacuate personnel, maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of monomer release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Refer to Section 13 for additional information. Wash all affected areas with plenty of warm water and soap.

SECTION 7- HANDLING AND STORAGE

HANDLING PROCEDURES: Keep away from heat, sparks, and flame. Keep container closed after each use. Refer to Section 8 for suggested exposure controls and personal protection. Observe precautions found on label. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping. Do not use localized heat source such as band heaters to heat/melt product. Do not use steam. Hot boxes or hot rooms are recommended for heating the product which can be set at a maximum temperature of 60°C/140°F.

STORAGE PROCEDURES: Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Store in accordance with National Fire Protection Association recommendations. Product residue may remain in empty containers. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

ITEM*	ACGIH		PEL TWA	OSHA PEL CEILING
	TLV-TWA	TLV-STEL		
Mixture	NE	NE	NE	NE

* Abbreviations can be found in Section 16

ENGINEERING CONTROLS: Use local ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

RESPIRATORY PROTECTION: A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

EYE/FACE PROTECTION: Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

HAND/SKIN PROTECTION: Avoid skin contact. Wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards. Wear impervious clothing to prevent any contact with this product, such as gloves, apron, boots, or whole body suit.

GENERAL HYGIENE CONSIDERATIONS: Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/COLOR:	Clear to pigmented
PHYSICAL STATE:	Liquid.
ODOR:	Acrylate.
ODOR THRESHOLD:	NE
pH:	NE
FREEZING POINT:	NE
BOILING POINT:	NE
FLASH POINT (closed cup):	NE
EVAPORATION RATE (BuAc =1):	NE
FLAMMABLE LIMIT, AIR VOL% LOWER:	NE
UPPER:	NE
VAPOR PRESSURE:	NE
VAPOR DENSITY (AIR=1):	NE
RELATIVE DENSITY:	NE
SPECIFIC GRAVITY (H₂O=1):	NE
SOLUBILITY IN WATER:	NE
AUTOIGNITION TEMPERATURE:	NE
DECOMPOSITION TEMPERATURE:	NE
PERCENT VOLATILE W/W%:	NE

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Avoid excessive temperatures, localized heat sources (example drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.
INCOMPATIBLE MATERIALS:	Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of Carbon when burned.
HAZARDOUS POLYMERIZATION:	MAY OCCUR: X WILL NOT OCCUR:
POSSIBILITY OF HAZARDOUS REACTIONS:	MAY OCCUR: X WILL NOT OCCUR:

SECTION 11- TOXICOLOGICAL PROPERTIES

TARGET ORGANS:

For Mixture: NE

SYMPTOMS:

Refer to Section 2 for information.

IMMEDIATE/DELAYED EFFECTS:

Refer to Section 2 for information.

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There are extensive toxicological data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. If you need more information, please contact manufacturer at the telephone number found in Section 1.

SENSITIZATION:

No data available.

IRRITANCY:

No data available.

CHRONIC EXPOSURE:

Carcinogenicity: None of components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.
Reproductive Toxicity: No data available.
Teratogenicity: No data available.
Mutagenicity Data: No data available.

NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS:

No data available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:

AQUATIC:

There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life. There may be data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. If you need more information, please contact manufacturer at the telephone number found in Section 1.

SOIL: No data available.
AIR: No data available.

ENVIRONMENTAL FATE:

Persistence and Degradability:
Biodegradation: Not known.

Bioaccumulative Potential: Not known.

Mobility in soil: Not known.

Other Adverse effects: None known.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Contaminated product/soil/water may be RCRA/OSHA hazardous waste due to potential for internal heat generation (40 CFR 261 and 29 CFR 1910). Dispose of waste material in accordance with Federal, State, and Local regulations.

DISPOSAL OF EMPTY CONTAINERS:

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual material associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION

DOT (GROUND)
PROPER SHIPPING NAME: Not regulated.
TECHNICAL NAME: NA
DOT/UN CLASS: NA
NA/UN NUMBER: NA
PACKING GROUP: NA

DOT RQ: NA

MARINE POLLUTANT: No.

SECTION 15 - REGULATORY INFORMATION

**United States:**

OSHA:

This material is considered Hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

TSCA Inventory Status:

The components of this product are listed or are excluded from listing on the TSCA Inventory.

SARA Section 302:

There are no specific Threshold Planning Quantities for the components of this product.

SARA Section 311/312:

NE

SARA Section 313:

There are not any reporting requirements for this product.

CERCLA Reportable Quantity (RQ):

NA

State Regulatory Information:

This product may contain components that are covered under specific state criteria.

California Prop 65:

May contain substances known to the state of California to cause cancer and/or reproductive toxicity.

Canada:

DSL/NDSL:

The components of this product are listed on the DSL or NDSL.

WHMIS Hazard Class:

Not Classified.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. None of the components of this product are listed on the Priorities Substances List.

Europe:

EINECS:

The components of this product are listed on or are exempt from listing on EINECS.

Candidate List:

NA.

CSR Available:

No.

HAZARD SYMBOLS:

Xi – Irritant

RISK STATEMENTS:

R21/22 – Harmful in contact with skin and if swallowed.

R35 – Causes severe burns.

R36/38 – Irritating to eyes skin.

R43 – May cause sensitization by skin contact

SAFETY STATEMENTS:

S1/2 – Keep locked up and out of reach of children.

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 – After contact with skin, wash immediately with plenty of water and seek medical advice.

S38/27/29 – Wear suitable protective clothing, gloves and eye/face protection.

S45 – In case of accident or if you are unwell, seek medical advice immediately.

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	1
PERSONAL PROTECTIVE EQUIPMENT:	Gloves and Safety Glasses or Chemical Splash Goggles.



NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	1
SPECIAL INFORMATION:	NA

ABBREVIATIONS:

NA	Not Applicable	ND	Not Determined
NE	Not Established		
ppm	parts per million	G	Gallon
mg	Milligram	L	Liter
gm	Gram	mol	Mole
kg	Kilogram	μ	Micro
mm	Millimeter	p	Pico
Pa	Pascals	c	cento
LC	Lethal Concentration	LD	Lethal Dose
TC	Toxic Concentration	TD	Toxic Dose
BOD	Biological Oxygen Demand	COD	Chemical Oxygen Demand
Lo	Lowest	ThOD	Theoretical Oxygen Demand
TLm	Threshold Limit	IC	Inhibitory Concentration
DOC	Dissolved Organic Carbon		
H	Hours	M	Months
D	Days	Y	Years
W	Weeks		

ACGIH	American Conference of Governmental Industrial Hygienist
CPR	Controlled Product's Regulation
CSR	Chemical Safety Report
DOT	Department of Transportation
DSL	Canadian Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
IARC	International Agency for Research for Cancer
NDSL	Canadian Non-Domestic Substance List
NOEL	No Observed Effect Level
NOAEL	No Observed Adverse Effect Level
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
WHMIS	Workplace Hazardous Materials Information System

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS

Star Nail International, Inc. MATERIAL SAFETY DATA SHEET

BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Blend
PRODUCT NAME: T3 FIBER GEL Clear
TRADE NAME/PRODUCT CODE: 0009
PRODUCT USE: Organic Process Chemical
MANUFACTURER: Star Nail International, Inc.
ADDRESS: 29120 AVENUE PAINE
 VALENCIA, CA 91355
24 HR. EMERGENCY TELEPHONE: CHEMTEL: 813-248-0573 OR 1-800-255-3924
PREPARATION/UPDATE DATE: 01/02/2014
MSDS ID: M31-02

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:



Routes of Exposure: Inhalation, Skin or Eyes.

Acute Health Hazards: See section 11 for more information.

Eyes: Although no appropriate human or animal health effects are known to exist, this material is expected to cause slight irritation. Symptoms may include redness, tearing and excessive blinking. Severe irritant. Can cause redness, irritation, corneal opacity, permanent damage to the cornea.

Skin: It is suspected to be a slight skin irritant and sensitization hazard. May cause delayed skin irritation and blistering. Redness or rash and swelling of the affected area may occur. Prolonged contact may cause a more severe response such as ulcers and scarring. Although no appropriate human or animal health effects data are known to exist, this material is expected to be a slight skin absorption hazard.

Inhalation: No appropriate human or animal effects are known to exist but suspect slight respiratory tract irritation hazard if used at elevated temperatures or processes which generate an aerosol or mist. Symptoms of irritation may include coughing, mucous production and shortness of breath.

Ingestion: No appropriate human or animal effects are known to exist but is suspected to be an ingestion hazard.

Conditions Aggravated by Exposure: This material may cause an allergic skin reaction (sensitization) in susceptible individuals upon repeated exposure. May cause more significant skin irritation in people with pre-existing skin conditions.

Chronic Health Hazards: See section 11 for details.

Carcinogenicity: See section 11 for details.

Potential Environmental: See section 12 for details.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS #:	EINECS #	R Phrases	WT/WT %
01	Urethane Acrylate	NA	NA	NA	60.0-100.0
02	Ethoxylated Trimethylolpropane Triacrylate	28961-43-5	NA	NA	1.0-20.0
02	Methacrylic Acid	79-41-4	201-204-4	R21/22, R35	1.0-20.0
03	2-Hydroxyethyl Methacrylate	868-77-9	212-782-2	R36/38, R43	1.0-10.0
04	Photoinitiator	NA	NA	NA	1.0-10.0

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

EYES:	If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
SKIN:	Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.
INHALATION:	Remove to fresh air. Seek immediate medical attention.
INGESTION:	If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.
CLOTHING:	Remove contaminated clothing, wash thoroughly before reuse.
TREATMENT:	Treat symptoms conventionally, after thorough decontamination.

NOTE TO PHYSICIANS: None available.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:	Refer to Section 9 for details.
SUITABLE EXTINGUISHING MEDIA:	Chemical foam, carbon dioxide, dry chemical.
UNSUITABLE EXTINGUISHING MEDIA:	Water may not be effective in extinguishing this fire.
PRODUCTS OF COMBUSTION:	Oxides of Carbon
FIRE AND EXPLOSION HAZARDS:	High temperatures, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization.
SPECIAL FIRE FIGHTING PROCEDURES:	Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product. When involved in a fire, this product may ignite and decompose to produce carbon oxides. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and full protective equipment.
SENSITIVE TO MECHANICAL IMPACT:	No.
SENSITIVE TO STATIC DISCHARGE:	No.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Review Section 5 before proceeding with clean-up. Individuals involved must wear appropriate Personal Protective Equipment that is specified in Section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.
ENVIRONMENTAL PRECAUTIONS:	Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. 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.
METHODS FOR CONTAINMENT:	Dike and contain spill with inert, non-combustible material (e.g. sand or earth).
METHODS FOR CLEAN-UP:	Evacuate personnel, maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of monomer release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Refer to Section 13 for additional information. Wash all affected areas with plenty of warm water and soap.

SECTION 7- HANDLING AND STORAGE

HANDLING PROCEDURES: Keep away from heat, sparks, and flame. Keep container closed after each use. Refer to Section 8 for suggested exposure controls and personal protection. Observe precautions found on label. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping. Do not use localized heat source such as band heaters to heat/melt product. Do not use steam. Hot boxes or hot rooms are recommended for heating the product which can be set at a maximum temperature of 60°C/140°F.

STORAGE PROCEDURES: Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Store in accordance with National Fire Protection Association recommendations. Product residue may remain in empty containers. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

ITEM*	ACGIH		PEL TWA	OSHA PEL CEILING
	TLV-TWA	TLV-STEL		
Mixture	NE	NE	NE	NE

* Abbreviations can be found in Section 16

ENGINEERING CONTROLS: Use local ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

RESPIRATORY PROTECTION: A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

EYE/FACE PROTECTION: Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

HAND/SKIN PROTECTION: Avoid skin contact. Wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards. Wear impervious clothing to prevent any contact with this product, such as gloves, apron, boots, or whole body suit.

GENERAL HYGIENE CONSIDERATIONS: Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/COLOR:	Clear to pigmented thick liquid
PHYSICAL STATE:	Liquid.
ODOR:	Acrylate.
ODOR THRESHOLD:	NE
pH:	NE
FREEZING POINT:	NE
BOILING POINT:	NE
FLASH POINT (closed cup):	NE
EVAPORATION RATE (BuAc =1):	NE
FLAMMABLE LIMIT, AIR VOL% LOWER:	NE
UPPER:	NE
VAPOR PRESSURE:	NE
VAPOR DENSITY (AIR=1):	NE
RELATIVE DENSITY:	NE
SPECIFIC GRAVITY (H₂O=1):	NE
SOLUBILITY IN WATER:	NE
AUTOIGNITION TEMPERATURE:	NE
DECOMPOSITION TEMPERATURE:	NE
PERCENT VOLATILE W/W%:	NE

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Avoid excessive temperatures, localized heat sources (example drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.
INCOMPATIBLE MATERIALS:	Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of Carbon when burned.
HAZARDOUS POLYMERIZATION:	MAY OCCUR: X WILL NOT OCCUR:
POSSIBILITY OF HAZARDOUS REACTIONS:	MAY OCCUR: X WILL NOT OCCUR:

SECTION 11- TOXICOLOGICAL PROPERTIES

TARGET ORGANS:

For Mixture: NE

SYMPTOMS:

Refer to Section 2 for information.

IMMEDIATE/DELAYED EFFECTS:

Refer to Section 2 for information.

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There are extensive toxicological data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. If you need more information, please contact manufacturer at the telephone number found in Section 1.

SENSITIZATION:

No data available.

IRRITANCY:

No data available.

CHRONIC EXPOSURE:

Carcinogenicity: None of components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.
Reproductive Toxicity: No data available.
Teratogenicity: No data available.
Mutagenicity Data: No data available.

NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS:

No data available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:

AQUATIC:

There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life. There may be data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. If you need more information, please contact manufacturer at the telephone number found in Section 1.

SOIL: No data available.
AIR: No data available.

ENVIRONMENTAL FATE:

Persistence and Degradability:
Biodegradation: Not known.

Bioaccumulative Potential: Not known.

Mobility in soil: Not known.

Other Adverse effects: None known.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Contaminated product/soil/water may be RCRA/OSHA hazardous waste due to potential for internal heat generation (40 CFR 261 and 29 CFR 1910). Dispose of waste material in accordance with Federal, State, and Local regulations.

DISPOSAL OF EMPTY CONTAINERS:

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual material associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION

DOT (GROUND)
PROPER SHIPPING NAME: Not regulated.
TECHNICAL NAME: NA
DOT/UN CLASS: NA
NA/UN NUMBER: NA
PACKING GROUP: NA

DOT RQ: NA

MARINE POLLUTANT: No.

SECTION 15 - REGULATORY INFORMATION

United States:

OSHA: This material is considered Hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

TSCA Inventory Status: The components of this product are listed or are excluded from listing on the TSCA Inventory.

SARA Section 302: There are no specific Threshold Planning Quantities for the components of this product.

SARA Section 311/312: NE

SARA Section 313: There are not any reporting requirements for this product.

CERCLA Reportable Quantity (RQ): NA

State Regulatory Information: This product may contain components that are covered under specific state criteria.

California Prop 65: May contain substances known to the state of California to cause cancer and/or reproductive toxicity.



Canada:

DSL/NDSL: The components of this product are listed on the DSL or NDSL.

WHMIS Hazard Class: Not Classified.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. None of the components of this product are listed on the Priorities Substances List.

Europe:

EINECS: The components of this product are listed on or are exempt from listing on EINECS.

Candidate List: NA.

CSR Available: No.

HAZARD SYMBOLS: Xi – Irritant

RISK STATEMENTS: R21/22 – Harmful in contact with skin and if swallowed.
R35 – Causes severe burns.
R36/38 – Irritating to eyes skin.
R43 – May cause sensitization by skin contact

SAFETY STATEMENTS: S1/2 – Keep locked up and out of reach of children.
S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 – After contact with skin, wash immediately with plenty of water and seek medical advice.
S38/27/29 – Wear suitable protective clothing, gloves and eye/face protection.
S45 – In case of accident or if you are unwell, seek medical advice immediately.

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	1
PERSONAL PROTECTIVE EQUIPMENT:	Gloves and Safety Glasses or Chemical Splash Goggles.



NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	1
SPECIAL INFORMATION:	NA

ABBREVIATIONS:

NA	Not Applicable	ND	Not Determined
NE	Not Established		
ppm	parts per million	G	Gallon
mg	Milligram	L	Liter
gm	Gram	mol	Mole
kg	Kilogram	μ	Micro
mm	Millimeter	p	Pico
Pa	Pascals	c	cento
LC	Lethal Concentration	LD	Lethal Dose
TC	Toxic Concentration	TD	Toxic Dose
BOD	Biological Oxygen Demand	COD	Chemical Oxygen Demand
Lo	Lowest	ThOD	Theoretical Oxygen Demand
TLm	Threshold Limit	IC	Inhibitory Concentration
DOC	Dissolved Organic Carbon		
H	Hours	M	Months
D	Days	Y	Years
W	Weeks		
ACGIH	American Conference of Governmental Industrial Hygienist		
CPR	Controlled Product's Regulation		
CSR	Chemical Safety Report		
DOT	Department of Transportation		
DSL	Canadian Domestic Substances List		
EINECS	European Inventory of Existing Commercial Chemical Substances		
IARC	International Agency for Research for Cancer		
NDSL	Canadian Non-Domestic Substance List		
NOEL	No Observed Effect Level		
NOAEL	No Observed Adverse Effect Level		
OSHA	Occupational Safety and Health Administration		
PEL	Permissible Exposure Limit		
TLV	Threshold Limit Value		
TSCA	Toxic Substances Control Act		
WHMIS	Workplace Hazardous Materials Information System		

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Star Nail International, Inc. MATERIAL SAFETY DATA SHEET

CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.

Star Nail International, Inc. MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Glacial Methacrylic Acid
PRODUCT NAME: Primer Pen
TRADE NAME/PRODUCT CODE: 0000
PRODUCT USE: Organic Process Chemical
MANUFACTURER: Star Nail International, Inc.
ADDRESS: 29120 Avenue Paine
Valencia, CA 91355
24 HR. EMERGENCY TELEPHONE: CHEMTEL: 1-800-255-3924
PREPARATION/UPDATE DATE: 01/02/2014
PRINT DATE: 6/11/14
MSDS ID: M13-01

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

FOR MONOMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Methacrylic acid	79-41-4	60.0-100.0
02	Other ester adducts	NA	0.0-2.0

ITEM	ACGIH		OSHA		Company		Recommendation	SKIN
	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING				
01	20 ppm	NE	20 ppm	NE	20 ppm	NE	NE	
02	NE	NE	NE	NE	NE	NE	NE	

Note this material contains an inhibitor (HQ, MEHQ, BHT, etc) at <1%. The type and amount meet product specifications. Contact manufacturer for exact concentration and details on inhibitor level maintenance.

See Section 16 for Abbreviations.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING:

For Monomer:

Physical Hazards:



Unstable/Reactive upon depletion of inhibitor. **Check inhibitor levels periodically.**

Acute:

Eyes:

Material can cause corrosion to eyes and permanent eye injury.

Skin:

Material can cause corrosion to skin. Harmful if absorbed through the skin.

Inhalation:

Inhalation of vapor or mist can cause irritation of nose, throat, and lungs. May cause burns resulting in permanent damage.

Ingestion:

May be harmful if swallowed. May cause severe and permanent damage to throat, mouth and stomach.

Chronic:

Prolonged or repeated overexposure at near lethal concentrations can cause kidney damage liver damage.

CARCINOGENICITY:

None of the other components of this material are listed by IARC or ACGIH as carcinogens.

PRIMARY ROUTES OF ENTRY:

Inhalation, Skin, or Eyes.

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

EYES:

If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Call a physician immediately.

INGESTION:

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately. *NOTE: This is a corrosive material. Do not administer any other first aid before obtaining the advice of a physician.*

INHALATION:

Remove to fresh air. Seek immediate medical attention.

SKIN:

IMMEDIATELY get under a safety shower. Remove contaminated clothing. Wash with soap and water. Immediate medical attention is required.

CLOTHING:


Remove contaminated clothing and wash thoroughly before reuse.

TREATMENT:

Treat symptoms conventionally, after thorough decontamination.

Notes to physician: This material will have corrosive effects in which case it may not be advisable to induce vomiting. Acute effects can include mucosal damage and severe laryngeal edema associated with corrosive agents.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:	152.6° F, 67 ° C	
FLAMMABLE LIMIT, AIR VOL% LOWER:	NE	
UPPER:	NE	
AUTOIGNITION TEMPERATURE:	NE	
EXTINGUISHER METHOD:	Chemical foam, carbon dioxide, dry chemical.	
FIRE AND EXPLOSION HAZARDS:	High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.	
SPECIAL FIRE FIGHTING PROCEDURES:	Explosion hazard. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and full protective equipment.	
SENSITIVE TO MECHANICAL IMPACT:	No.	
SENSITIVE TO STATIC DISCHARGE:	No.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE:

Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves). Deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g. sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Maximize ventilation (open doors and windows) and secure all sources of ignition. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

SECTION 7- HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING:	Use local explosion-proof ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of material release. Refer to Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Hygienist. Observe precautions found on label. Do NOT use localized heat source such as band heaters to heat/melt product. Do NOT use steam. Thaw frozen drums by placing them in a heated room up to 40°C/104°F for 48 hours.
PRECAUTIONS FOR STORAGE:	Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Keep container closed after each use. Ground and bond all containers when transferring. Check inhibitor levels periodically , adding to the bulk material if needed. Maintain at a minimum, the original headspace in the product container and do not blanket or mix with oxygen-free gas as it renders the product ineffective.

SECTION 7- HANDLING AND STORAGE CONTINUED

Product freezes at 15°C/59°F. Improper thawing can result in violent polymerization. DO NOT remove any material if stock is frozen or partially frozen. Mix during and after thawing to properly distribute inhibitor. Do not allow the temperature of this material to fall below the freezing point. Store in cool place. Keep away from direct sunlight. Limit indoor storage to approved areas equipped with automatic sprinklers. Minor deviations (7C/13F) above the recommended temperature (see below) are acceptable for short periods of time (one week) for material in transit. Store material in containers made of stainless steel, glass, aluminum, or polyethylene. **Storage at temperatures between 18°- 40°C/64°- 104°F.**

INDUSTRIAL HYGIENE PRACTICES:

This material is **corrosive**. This material is a potential skin sensitizer. Avoid prolonged contact with the product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**VENTILATION:**

Refer to Section 7 regarding the ventilation requirements for working with this product. Use explosion-proof local exhaust at processing equipment, including buffers, sanders, grinders and polishers. High temperature processing equipment should be well ventilated.

RESPIRATORY PROTECTION:

A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed in Section 2. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

EYE PROTECTION:

Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

PROTECTIVE GLOVES:

Chemical-resistant gloves should be worn whenever this material is handled. Butyl rubber or Neoprene gloves may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards.

OTHER PROTECTIVE EQUIPMENT:

Wear chemical resistant apron and/or boots for protecting against chemicals as appropriate. If necessary, refer to appropriate governing standards. An eyewash station and a safety shower are recommended.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, colorless liquid.
ODOR:	Pungent.
pH:	2.0-2.2
ODOR THRESHOLD:	ND
BOILING POINT:	162°C/323.6°F
FREEZING POINT:	15°C/59°F
VISCOSITY:	1.300 mPa.s at 25°C/77°F.
SPECIFIC GRAVITY (H₂O=1):	NA
VAPOR PRESSURE:	1.2932 hPa at 25°C/77°F.
PERCENT VOLATILE W/W%:	100%
VAPOR DENSITY (AIR=1):	>1
EVAPORATION RATE (BuAc =1):	<1
SOLUBILITY IN WATER:	Completely soluble.
COEFFICIENT OF WATER/OIL DISTRIBUTION:	NA

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	High temperatures, localized heat sources (example drum or band heaters) oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of Carbon when burned.
HAZARDOUS POLYMERIZATION:	MAY OCCUR: X WILL NOT OCCUR:
STABILITY:	Unstable/Reactive upon depletion of inhibitor.

SECTION 11- TOXICOLOGICAL PROPERTIES

TARGET ORGANS:	
For Methacrylic Acid:	None Listed.
TOXICITY DATA:	
For Methacrylic Acid:	
Acute oral toxicity, rat	LD ₅₀ 2,210 mg/kg
Acute inhalation toxicity, rat	LC ₅₀ 7.1 mg/l, 4H
Acute dermal toxicity, rabbit	LD ₅₀ >2,000 mg/kg
Skin irritation, rabbit	Corrosive
Eye irritation, rabbit	Corrosive
Sensitization	NOT a contact sensitizer

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

For Methacrylic Acid:

Rainbow trout	LC ₅₀	85 mg/l, 96H
Algae	EC ₅₀	0.6 mg/l, 96H
Daphnia magna	EC ₅₀	>130 mg/l, 48H

ENVIRONMENTAL FATE:

For Methacrylic Acid: Elimination information (persistence and degradability)
 Biodegradability: aerobic
 86 %
 Stable to hydrolysis at pH 3,7, 11.
 Readily biodegradable, according to appropriate OECD test.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations.



DISPOSAL OF EMPTY CONTAINERS:

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION

DOT/UN SHIPPING NAME:	METHACRYLIC ACID, STABILIZED
DOT/UN CLASS:	8
NA/UN NUMBER:	UN 2531
PACKING GROUP:	II
LABEL:	Corrosive
IMDG CLASS:	
IMDG PG:	
CERCLA RQ:	

SECTION 15 - REGULATORY INFORMATION

SARA Reporting Requirements:	NA	 
SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.	
TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.	
CERCLA Reportable Quantity (RQ):	NA	
Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR.	
Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.	
State Regulatory Information:	This product may contain components that are covered under specific state criteria.	

RISK STATEMENTS:



R34 - Causes burns.
R36/37/38 – Irritating to eyes, respiratory system and skin.
R41 - Risk of serious damage to the eyes.
R43 – May cause sensitization by skin contact

SAFETY STATEMENTS:

S2 – Keep out of reach of children
S3 – Keep in a cool place.
S7 – Keep container tightly closed.
S9 – Keep container in a well-ventilated place.
S16 – Keep away from sources of ignition – No Smoking.
S20/21 – When using do not eat or drink or smoke.
S24/25 - Avoid contact with skin and eyes.
S29 – Do not empty into drains.
S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.
S38 - In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH:	3	 
FLAMMABILITY:	2	
REACTIVITY:	2	
PERSONAL PROTECTIVE EQUIPMENT:	Gloves and Safety Glasses or Chemical Splash Goggles.	

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH:	3
FLAMMABILITY:	2
REACTIVITY:	2

SECTION 16 - OTHER INFORMATION CONTINUED

ABBREVIATIONS:

NA	Not Applicable	ND	Not Determined
NE	Not Established		
ppm	parts per million	G	Gallon
mg	Milligram	L	Liter
gm	Gram	mol	Mole
kg	Kilogram	μ	Micro
mm	Millimeter	p	Pico
Pa	Pascals		
LC	Lethal Concentration	LD	Lethal Dose
TC	Toxic Concentration	TD	Toxic Dose
BOD	Biological Oxygen Demand	COD	Chemical Oxygen Demand
Lo	Lowest	ThOD	Theoretical Oxygen Demand
TLm	Threshold Limit		
DOC	Dissolved Organic Carbon		
H	Hours	M	Months
D	Days	Y	Years
W	Weeks		

ACGIH American Conference of Governmental Industrial Hygienist

CPR Controlled Product's Regulation

DSL Canadian Domestic Substances List

NDSL Canadian Non-domestic Substance List

IARC International Agency for Research for Cancer

NOEL No Observed Effect Level

NOAEL No Observed Adverse Effect Level

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

TLV Threshold Limit Value

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STAR NAIL INTERNATIONAL, INC. MSDS

PRODUCT NAME: Fast Set Express Top Coat

Preparation Date: 01/02/2014

This form is regarded to be in compliance with 29 CFR Part 1910.1200

SECTION 1 : IDENTIFICATION

PRODUCT NAME: Fast Set Express Top Coat

Product Use: Fast Dry Nail Lacquer

Manufacturer's Name : Star Nail International, Inc.

Chemical Family :

Address : 29120 Avenue Paine

Proprietary Mix

City, State, Zip : Valencia, CA 91355

CAS# N/A

24 HR. EMERGENCY TELEPHONE: CHEMTEL 1-813-248-0573

SECTION 2: Composition/ Information on Ingredients

Hazardous Ingredients	CAS #	%	Hazard Symbol	Risk Phrases
Butyl Acetate (**)	123-86-4	30-45%	F	R10, R66, R67
Ethyl Acetate (**)	141-78-6	30-45%	F, XI	R11, R36, R66,R67
Nitrocellulose	9004-70-0	5-20%	F	R11
Isopropyl Alcohol * (**)	67-63-0	1-15%	F	R37, R11, R36,R67
Camphor	76-22-2	0-10%	F	R11

*Indicates toxic chemical (s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

** Indicates chemical subject to reporting requirements under CERCLA

SECTION 3 : Hazards Identification

Flammability : Highly Flammable

Inhalation : Prolonged inhalation may be harmful.

: Can cause drowsiness, headaches, nausea, vomiting and narcosis.

: May cause lung irritation.

Skin : Mild skin irritant, can cause non-allergic contact dermatitis.

Eyes : Eye irritant both liquid and vapor

Ingestion : Causes gastro-intestinal irritation, nausea, vomiting and diarrhea.

: Kidney damage



Risk Phrases/Hazard Symbols: NOTE: Definition of listed Risk Phrases and Hazard Symbols (Section 2.) can be found in Section 15.

SECTION 4 : First Aid Measures

Inhalation : Remove casualty to fresh air.

: Seek medical attention.

Skin : Wash off with propriety remover, wash affected area with soap and water.

Eyes : Irrigate with copious amounts of sterile water.

: Seek medical attention.

Ingestion : Do not induce vomiting. SEEK IMMEDIATE MEDICAL ATTENTION

The above information may be based in part on information provided by component suppliers and is believed to be correct as of the date hereof. However, no warranty of merchantability, fitness for any use, or any other warranty is express or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we assume no responsibility for the result of its use. This information and material furnished on the condition that the person receiving it shall make his/her own determination as to the suitability of the material for his/her particular purpose and on the condition that he/she assume the risk of his/her use thereof.

SECTION 5 : Fire Fighting Measures

MAGNITUDE APPLICABLE EXTINGUISHER TYPE
Small fire Carbon Dioxide, foam or dry chemical extinguishers.
Large fire Water or foam extinguishers, water fog.

Note:- In all cases keep nearby containers cool by spraying with water.

Keep away from heat and sources of ignition

SECTION 6 : Accidental Release Measures

Personal Precautions: Use suitable protective clothing/equipment.
 Eliminate all sources of ignition. No Smoking.
Methods Of Cleaning Up: Contain spillage with earth or sand.
 Mop up small spill
 Sweep up, use sand or earth to absorb spill for larger spillages
Environmental Precautions: Do not allow to enter water courses or drains
 Dispose in accordance with local regulation
 Local authorities should be advised if significant spillages cannot be contained.

SECTION 7 : Handling and Storage

Storage

Keep containers tightly closed, cool, dry, and away from sources of ignition, label containers
Eliminate possible point ignition sources, e.g. No smoking, Naked flames, static discharges.
Use flame proof electrical equipment.

Handling

No Smoking
Prevent static discharges.
Exposure by inhalation or skin contact should be minimized by good industrial hygiene.
Vapor is heavier than air, spreads along the ground.
Vapor can form an explosive mixture in air, prevalent in empty unclean vessels.
Use non-sparking utensils when handling this material.

SECTION 8 : Exposure Controls and Personal Protection

Exposure Levels

Substance	8 hr TWAppm	15 min TWAppm
Butyl Acetate (**)	150	200
Ethyl Acetate (**)	400	500
Nitrocellulose		
Isopropyl Alcohol * (**)	200	400
Camphor	2	3

Ventilation and extraction of appropriate design is necessary to meet the above levels.

Personal Protection

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Chemical goggles should be worn.
Impervious gloves and overalls should also be worn.
An approved respirator should be worn if the maximum exposure levels above are surpassed.
HMIS RATING

Hazard Rating: (0=least, 1=slight, 2=moderate, 3=serious, 4=severe)

HEALTH: 2 FIRE: 3 REACTIVITY: 1 PP: G

SECTION 9 : Physical and Chemical Properties

Appearance: Liquid
Boiling/melting Point: Undefined
Flash Point: - 4° C or 24° F Method: TCC (Tag Closed Cup)
Upper/lower explosion limits: Undefined
Water Solubility: Insoluble
Vapor Density: Heavier than air
Specific Gravity (H2O=1): 0.948

SECTION 10: Stability and Reactivity

Stability: Stable under recommended storage conditions, affected by U.V., store away from direct sunlight.
Incompatible With: Strong oxidizing agents. Acids, Alkalines, and Peroxides

Hazardous Decomposition: Combustion of nitrocellulose may evolve nitrous oxid (poisonous) fumes.
CO, CO2, Nitrous Oxides, Smoke

Conditions to avoid: Flame, Electric spark, static and heat. Do not store @ Temperature Over 120°
Hazardous Polymerization: Will not occur.

SECTION 11: Toxicological Information

Toxicity:- LD 50 Rat:- Undefined

Organic solvents in the product may lead to removal of lipid soluble elements of the skin leading to non-allergic dermatitis upon repeated prolonged contact.

Vapor from solvents may cause: ill effects to the renal system; central nervous system problems; irritation to the respiratory tracts and other various mucosal membranes.

SECTION 12: Ecological Information

Product should not be allowed to enter drains or water courses.

Used in large volumes, this product may incur the requirements of the Environmental Protection Act (pollution control/air).

The above information may be based in part on information provided by component suppliers and is believed to be correct as of the date hereof. However, no warranty of merchantability, fitness for any use, or any other warranty is express or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we assume no responsibility for the result of its use. This information and material furnished on the condition that the person receiving it shall make his/her own determination as to the suitability of the material for his/her particular purpose and on the condition that he/she assume the risk of his/her use thereof.

STAR NAIL INTERNATIONAL, INC. MSDS

PRODUCT NAME: Fast Set Express Top Coat

Preparation Date: 01/02/2014

SECTION 13: Disposal Considerations

Dispose of product in accordance with local, county, state, and federal government Regulations.

SECTION 14: Transport Information

Proper Shipping Name : Paint
Technical Name : Nitrocellulose Lacquer
U.N. number : 1263
DOT Hazard Class : 3 (Flammable Liquid)
Packing Group : II
Flash Point : - 4°C or 24° F TCC (Tag Closed Cup)
ADR : Class 3; F1

SECTION 15: Regulatory Information

UNITED STATES FEDERAL REGULATIONS:

SARA: See section 2 for reportable material

SARA TITLE III: See Section 2

CERCLA: See Section 2

TSCA: - Components in this product have been verified as being on the TSCA Inventory and have been classified in accordance with the hazard criteria of the CFR and all information required.-



STATE REGULATIONS:

Proposition 65: None

EU Risk Phrases : R10 Flammable

R11 Highly Flammable

R20 Harmful by inhalation

R21 Harmful in contact with skin

R22 Harmful if swallowed

R36 Irritating to eyes

R37 Irritating to respiratory system

R38 Irritating to skin

R41 Risk of serious damage to eyes

R43 May cause sensitization by skin contact

R65 Harmful: may cause lung damage if swallowed

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapors may cause drowsiness and dizziness.

EU Safety Phrases : S16 Keep away from sources of ignition- No Smoking

S23 Do not breathe vapor.

S25 Avoid contact with eyes.

S29 Do not empty into drains.

S33 Take precautionary measures against.

Hazard Symbols : Xn - Harmful

Xi - Irritant

F - Highly Flammable

NOTE: The appropriate Risk Phrases and Hazard Symbols pertaining to this product are listed Section 2.

SECTION 16: ADDITIONAL INFORMATION

The above information may be based in part on information provided by component suppliers and is believed to be correct as of the date hereof. However, no warranty of merchantability, fitness for any use, or any other warranty is express or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we assume no responsibility for the result of its use. This information and material furnished on the condition that the person receiving it shall make his/her own determination as to the suitability of the material for his/her particular purpose and on the condition that he/she assume the risk of his/her use thereof.

STAR NAIL INTERNATIONAL, INC. MSDS
PRODUCT NAME: Fast Set Express Top Coat

Preparation Date: 01/02/2014

This does not constitute a guarantee of product characteristics.
The information given is to the company's belief accurate and reliable at the date indicated.
No warranty, guarantee or representation to its accuracy, reliability or completeness is implied.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by us to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design and the appropriate protective mechanisms to prevent employee exposure, property damage or release to the environment. Star Nail International assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

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MATERIAL SAFETY DATA SHEET

SECTION I Chemical Product and Company Identification

Trade Name Appearing on Label: **STAR NAIL FINISHING WIPE** Chemical Family: Solvent

Manufacturer/Distributor/Importers: Star Nail International, Inc.
29120 Avenue Paine
Valencia, CA 91355

Poison Control Center - Chem Tel: (800) 255-3954
Poison Control Center - Chem Tel : (813) 248-0573

Prepared By: Star Nails – Regulatory
Date prepared: 01/02/14
Professional Use Only

SECTION II Composition, Information or Ingredients

Chemical Identity	%	CAS Number	OSHA (PEL)	Exposure Limits in Air	
				ACGIH (TLV)	Other
Hazardous Materials:					
Isopropyl Alcohol	98%	67-63-0	400 ppm	400 ppm	500 ppm
Blue 1(CI 42090)	0.66%	3844-45-9	n/a	n/a	

SECTION III Hazard Identification

HMIS Rating Scale: 0 = Minimal 1 = Slight 2 = Moderate 4 = Severe

This Products Rating: Health: 2 Flammability: 3 Reactivity: 1

Material Appearance: Clear light liquid

Primary Route of Entry: Inhalation X Skin X Ingestion X

Ingredient(s) Listed as Cancer Causing Agents?:

NTP - no LARC Monographs - no OSHA - no



Target Organs Affected: Respiratory and Nervous systems.

Short Term Effects:

Inhalation: may cause dizziness if inhaled for a prolonged time

Eyes: may cause stinging if product gets into open eyes.

Skin: may cause dry skin if exposed repeatedly and over a prolonged period of time.

Signs and Symptoms of Over-Exposure: May cause dizziness, irritation to nose & throat. May cause mild irritation to respiratory tract and may result in central nervous system (CNS) depression.

Medical Conditions Generally Aggravated by Exposure: Respiratory and Nervous systems, eyes and skin.

SECTION IV First Aid Measures

Eye Contact: Flush eyes with large amounts of warm water.

Skin Contact: Wash with soap and water.

Inhalation: If dizziness occurs, remove person to fresh air.

Ingestion: If swallowed, do not induce vomiting; transport to nearest medical facility. If vomiting occurs spontaneously, keep head below hips to prevent aspirations, transport to nearest medical facility.

SECTION V Fire Fighting Measures

Flash Point: 12 C (53 F) TCC

Flammable Limits in Air % - LEL: 2, **UEL:** 12

Extinguishing Media: Water Fog X Dry Chemical X
Carbon Dioxide _X Foam _X



Fire Fighting Procedure: Dry Chemical, foam, Carbon Dioxide or Water spray.

SECTION VI Accidental Release Measures

Spill & Leak Procedures: Collect with absorbent material and place into trash container.

SECTION VII Handling and Storage

Handling: Use a fan or exhaust when handling open containers. Do not store in aluminum or equipment.

Storage: Store at room temperature. Keep containers closed when not in use. Temperatures above 120F(49C)

SECTION VIII Exposure Controls and Personal Protection

Use a fan or exhaust when working with open containers. Keep away from Heat and open flame.

SECTION IX Physical and Chemical Properties

Water Solubility: Soluble	Specific Gravity: (H2O = 1): 0.79 @ 20C/4C
Appearance: Clear	Boiling Range: 49 °C / 120 F
Physical Form: liquid	Melting Point: n/a
%/Wt. Volatiles: @21C(69F):100 %	Vapor Pressure (mm Hg): 33 @ 21C / 69 F
pH: n/a	Vapor Density: (Air = 1) 2.1 @ 21 C / 69 F
Odor: Solvent & mild odor	Evaporation Rate: (BuAc=1) 1.4 (Ether =1)
	Flashpoint:(MEK) -12 C (53 F) TCC

MSDS Finishing Wipe

page 3 of 4

SECTION X Stability and Reactivity

Chemical Stability: This product is stable under the recommended storage conditions.

Conditions to avoid: Heat, Open flame, and sparks form ignition sources. Storage in temperatures above 35 C. Do not store in aluminum equipment at temperatures above 120 F (49C)

Contact with Materials to avoid: strong oxidizing agents.

Hazardous Decomposition Products: carbon monoxide and unidentified organic compounds may be formed during combustion.

Hazardous Polymerization: will not occur.

SECTION XI Toxicological Information

LD50(Oral Rat)
5840 mg/kg

LC50 (Inhal. Rat)
12000 ppm / 8 hours

Ingestion: Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis.
Eyes: This product may be a temporary eye irritant if it gets into the open eye.
Dermal: May cause dry skin if exposed repeatedly and over a prolonged time.
Inhalation May cause dizziness, headache or nausea if exposed for a prolonged time
Overexposure: all of the above
Chronic Effects: n/a
Carcinogenicity: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH
Target Organs: n/a

SECTION XII Ecological Information

Ecotoxicity none

SECTION XIII Disposal Considerations

Waste Disposal: Dispose of absorbed material in accordance with local, state and federal regulations.

SECTION XIV Transport Information

Road Transport:		Maritime Transport:	
Class:	3	UN Number:	1219
Packaging Group:	III	Class:	3
Label:	3	Packaging Group:	II
UN Number:	1219	Label:	3
		Flash Point:	12 C, Method TCC

Air Transport:
 UN No. ID8000
 Class: 3
 Packaging Group: II
 Packaging instr.: 910 (Passenger)

SECTION XV Regulatory Information

Labeling:

Symbol: F
Indication of Danger: Flammable
Risk Phrases: Flammable
DOT Shipping Name: Isopropanol



SECTION XVI Other Information

IMPORTANT NOTICE: The information presented herein is based on experimental data submitted by the manufacturers of the raw materials and is considered scientifically correct, however, no warrant or representation, express or implied, is made as to the accuracy or suitability of this information for application to the purchaser's intended purpose or for consequences of its use. Use these materials only as directed. If you have any questions regarding the proper interoperation of this sheet or the meaning of any terms used, we strongly urge you to speak with your physician. For further information concerning product safety and proper use, call the number listed on the front of the MSDS.

*These Products Are Designed and Formulated for Professional Salon Use.
They Must be Used with Adequate Ventilation and in Accordance with Manufacturers Instructions.*

Abbreviations Used:

NE = Not Established

NKn = Not Known

n/a = Not Applicable

C = Ceiling Limit

TS = Trade Secret

EST = Estimated

N/DA = No Data Available

NTP = National Toxicology Program

IRAC = International Agency for Research on Cancer

CHEMTREC = Chemical Transportation Emergency Center

OSHA = Occupational Safety and Health Administration

IPA = Isopropyl Alcohol (Rubbing Alcohol)

mm Hg = Millimeters of Mercury

PEL = Permissible Exposure Limit

TLV = Threshold Limit Value

STEL = Short Term Exposure Limit

NEGL = Negligible

NF = None Found

CAS = Chemical Abstract Service Number

NR = Not Required

MATERIAL SAFETY DATA SHEET

SECTION I **Chemical Product and Company Identification**

Star Nail Cuticle Oil

Star Nail Cuticle Oil

All Fragrances

Manufacturer/Distributor/Importers: Star Nail International, Inc.
29120 Avenue Paine
Valencia, CA 91355

Emergency Phone: (813) 248-0573 or (800) 255-3924

Date prepared:
01/02/14

SECTION II **Potentially Hazardous Ingredients**

Chemical Identity	%	CAS Number	OSHA (PEL)	Exposure Limits in Air	
				ACGIH (TLV)	OSHA(STEL)
Mineral Oil	25-85%	8012-95-1	5mg/m3	5mg/m3	10mg/m3

SECTION III **Hazard Identification**

HMIS Rating Scale: 0 = Minimal 1 = Slight 2 = Moderate 4 = Severe

This Products Rating: Health: 0 Flammability: 1 Reactivity: 0

Material Appearance: Various Colors Oil

Primary Route of Entry: Inhalation _ Skin X Ingestion X

Ingredient(s) Listed as Cancer Causing Agents?:

NTP - no LARC Monographs - no OSHA - no

Target Organs Affected: none

Short Term Effect:

Inhalation: n/a

Eyes: may cause slight stinging if product gets into open eyes.

Skin: n/a

Signs and Symptoms of Over-Exposure: n/a

Medical Conditions Generally Aggravated by Exposure: n/a



SECTION IV **First Aid Measures**

Eye Contact: Flush eyes with large amounts of warm water.

Skin Contact: Wash with soap and water.

Inhalation: n/a

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting or diarrhea. Do not induce vomiting. If spontaneous vomiting occurs place victims head below knees. See medical attention immediately.

SECTION V **Fire Fighting Measures**

Flash Point: Open Cup: 166°C(331°F) (Cleveland)

Flammable Limits in Air % n/a- LEL: n/a, UEL: n/a

Extinguishing Media: Water Spray _ Dry Chemical X
Carbon Dioxide X Foam _

Fire Fighting Procedure: Use NIOSH approved self-contained breathing apparatus and complete protective clothing.

SECTION VI **Accidental Release Measures**

Spill and Leak Procedures: Collect with absorbent material and place into trash container.

SECTION VII **Handling and Storage**

Handling: Keep container closed when not in use.

Storage: Store at room temperature. Keep container closed when not in use. Keep away from heat, sparks and/or open flames.

SECTION VIII **Exposure Controls and Personal Protection**

This product is a skin cream oil and does not require Exposure controls.

SECTION IX **Physical and Chemical Properties**

Water Solubility: Insoluble in cold water.	Specific Gravity: (H ₂ O = 1): 0.85 - 0.88
Appearance: Clear -Various colors	Smoke Point: 210°C
Physical Form: Oily liquid	Melting Point: n/a
%/Wt. Volatiles: 0 %	Vapor Pressure (mm Hg): 1.0 mmHg @20°C (68°F)
pH: n/a	Vapor Density: (Air =1): >1
Odor: Light floral fragrances	Evaporation Rate: (H ₂ O) - 1) n/a

SECTION X Stability and Reactivity

Chemical Stability: This product is stable under the recommended storage conditions.

Conditions to avoid: Avoid excess heat and open flame & strong oxidizing conditions. No storage in temperatures above 35°C

Contact with Materials to avoid: Avoid chlorine, fluorine and other strong oxidizers

Hazardous Decomposition Products: none

Hazardous Polymerization: will not occur.

SECTION XI Toxicological Information

	LD50(Oral Rat)	LC50 (Inhal. Rat)
Mineral Oil	>5000mg/kg	n/a

Ingestion: May cause gastrointestinal irritation, nausea, vomiting or diarrhea.

Eyes: Minimal eye irritation may result from short-term contact with liquid, mist and/or vapor.

Dermal: n/a

Inhalation: n/a

Overexposure: n/a

Chronic Effects: n/a

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH

Target Organs: n/a

SECTION XII Ecological Information

Ecotoxicity NE

SECTION XIII Disposal Considerations

Waste Disposal: Dispose of absorbed material in accordance with local, state and federal regulations.

SECTION XIV Transport Information

Road Transport:		Maritime Transport:	
Class:	n/a	UN Number:	n/a
Packaging Group:	n/a	Class:	n/a
Label:	n/a	Packaging Group:	n/a
UN Number:	n/a	Label:	n/a

Air Transport:

ID No. n/a

Class: n/a

Packaging Group: n/a

Packaging instr.: n/a

SECTION XV **Regulatory Information**

Labeling: n/a

Symbol: n/a

Indication of Danger: n/a

Risk Phrases: n/a

Safety Phrases: n/a

SECTION XVI **Other Information**

IMPORTANT NOTICE: The information presented herein is based on experimental data submitted by the manufacturers of the raw materials and is considered scientifically correct, however, no warrant or representation, express or implied, is made as to the accuracy or suitability of this information for application to the purchaser's intended purpose or for consequences of its use. Use these materials only as directed. If you have any questions regarding the proper interoperation of this sheet or the meaning of any terms used, we strongly urge you to speak with your physician. For further information concerning product safety and proper use, call the number listed on the front of the MSDS.

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