

MATERIAL SAFETY DATA SHEET
Star Nail International, Inc. UV GEL SEAL

1. MATERIAL AND COMPANY IDENTIFICATION

Product Name : UV GEL SEAL

Company : Star Nail International, Inc.

29120 Avenue Paine

Valencia CA 91355

Preparation Date: 01/02/2014

Emergency Telephone Number Chemtel Domestic (24hr) 1-800-255-3924

2.

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name CAS No. Concentration

Di-Hema Trimethylhexyl Diacarbamate Exempt 70-75%

PEG-4 Dimethacrylate 109-17-1 15-20%

Ethyl Methacrylate 97-63-2 5-10%

Hydroxycyclohexyl phenyl ketone 947-19-3 1-3 %

Violet 2 (CI 160725) 81-48-1 0-1%



HAZARD SYMBOLS Xi, F RISK PHRASES: R22,R36/37/38, R43 SAFETY
PHRASES:S18,S24/25,S36/37,S38,S46

3. HAZARDS IDENTIFICATION

Emergency Overview

Flammable liquid and vapor

May be slightly toxic

May cause moderate skin injury (reddening and swelling)

May cause chemical burn in eye

Health Hazards

Inhalation :May cause respiratory tract irritation with presence
of monomer. Vapors may
cause dizziness.

Skin Contact :Repeated exposure may cause skin dryness or
cracking. May cause reddening,
swelling and sensitization

Eye Contact :Contains materials that are essentially nonirritating, but contact
may cause slight transient
irritation. Material may act as a Lachrymator (substance which increases the
flow of tears).

Ingestion :May cause gastrointestinal irritation with nausea, vomiting &
diarrhea.

See Chapter 11 for details.



4.

FIRST AID MEASURES

Inhalation : Remove to fresh air. If rapid recovery does not occur, transport
to nearest medical facility for additional treatment.

Skin Contact : Remove contaminated clothing. Flush exposed area with water
and soap for 15 minutes. Get medical aid if symptoms persist. Wash clothing
before reuse

Eye Contact

: Immediately flush eyes with large amounts of water for at least
15 minutes while holding eyelids open. Get medical aide. Do NOT allow victim
to rub or keep eyes closed.

Ingestion

: If swallowed, do NOT induce vomiting: transport to nearest medical facility for additional treatment. IF conscious and alert, rinse mouth and drink 2-4 cupfuls of milk and/or water.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point : 110;F/ 43;C Penske-Martin

Auto ignition temperature : No data

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Extinguishing Media : Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires

Fire Fighting

Instructions : Remove ignition sources. Full protective clothing and self-contained breathing apparatus must be worn when approaching a fire in a confined space.

Unusual Hazards : High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers. Avoid the use of a stream of water to control fires since frothing can occur.

Additional Advice

: All storage areas should be provided with adequate fire fighting facilities. Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. Immediately remove all contaminated clothing.

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety

Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety

Data Sheet. Observe all relevant local and international regulations.

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 appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth) and place in 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 flush spills away from exposures.

7. HANDLING AND STORAGE

General Precautions : Avoid breathing vapors or contact with material. Only use in Well-ventilated areas.

Keep container closed when not in use. Avoid contact with heat, sparks and flame.

Wash thoroughly after handling. On guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this

data sheet as input to a risk assessment of local circumstances to help determine

appropriate controls for safe handling, storage and disposal of this material.

Handling : Avoid inhaling vapor and/or mists. Avoid contact with skin, eyes, and clothing. Use

with adequate ventilation. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping

in order to avoid generation of electrostatic discharge (≤ 1 m/sec until fill pipe

submerged to twice its diameter, then ≤ 7 m/sec). Avoid splash filling. Do NOT use

compressed air for filling, discharging, or handling operations. Do not pressurize, cut,

weld, braze solder, drill, grind, or expose empty containers to heat, sparks, or open

flames. Material is extremely sensitive to light. Do not expose to natural or UV light.

Storage

: Must be stored in a well-ventilated area, away from sunlight, ignition sources and

other sources of heat. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or

to the environment. The vapor is heavier than air. Beware of accumulation in pits and

confined spaces. Vapors from tanks should not be released to atmosphere.

Breathing

losses during storage should be controlled by a suitable vapor treatment system.

Bulk

storage tanks should be diked (bunded). Store at temperatures below 100 degrees F/38 degrees C.

Explosion Hazard

: High temperatures and fire conditions may cause rapid and uncontrolled

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polymerization which can result in explosions and the violent rupture of storage vessels or containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

: Local exhaust recommended to control exposure which may result from operations generating aerosols and hot operations generating vapors.

Personal Protective

: Personal protective equipment (PPE) should meet recommended national

Equipment

standards. Check with PPE suppliers. It is recommended that a hazard assessment in accordance with the OSHA PPE Standard, 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.

Respiratory Protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapors [boiling point <65;C (149;F)] meeting EN371. Where respiratory protective equipment is required, use a full-face mask. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1920.134 or European Standard EN 149.

Skin Protection

: Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

Eye Protection

: Chemical splash goggles (chemical monogoggles).

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 nuisance level

organic vapor dust masks can be used, however the use of the respirator is limited. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear. Semi-viscous liquid.
Odor : Characteristic acrylate odor.
pH : Not applicable.
Boiling point : Not applicable.
Flashpoint :110F/43C
Explosion/Flammability : Not applicable.
limits in air
Auto-ignition temperature: No Data
Vapour pressure : 20 C < 0.01 (mm Hg)
Density : No Data
Water solubility : Insoluble
Octanol/water partition : Not applicable.
Dynamic viscosity : N/DA
Evaporation rate : No Data

10. STABILITY AND REACTIVITY

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Stability
: Stable under normal conditions of use.

Conditions to Avoid
: Avoid heat, sparks, open flames and other ignition sources, Storage <100F/38C, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

Materials to Avoid
: Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust and string bases.

Hazardous Decomposition

Products
: Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide.

Hazardous

Polymerization
: May occur $\text{\textcircled{D}}$ Uncontrolled polymerization may cause rapid evolution of heat and increased pressure that could result in violent rupture of sealed storage vessels or containers.

11.

TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on product testing.

Acute Oral Toxicity : No Information Available.

Acute Dermal Toxicity : No Information Available.

Acute Inhalation Toxicity : No Information Available.

Skin Irritation : No Information Available.

Eye Irritation : No Information Available.

Respiratory Irritation : No Information Available.

Sensitization : No Information Available.

Repeated Dose Toxicity: No Information Available.

Mutagenicity : No Information Available.

12.

ECOLOGICAL INFORMATION

Acute ToxicityFish : No Information Available.

Aquatic Invertebrates : No Information Available.

Algae : No Information Available.

Microorganisms : No Information Available.

Persistence/degradability: No Information Available.

Bioaccumulation : No Information Available.

13. DISPOSAL CONSIDERATIONS

Material Disposal : Dispose of 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 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. Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

Container Disposal

: Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

Local Legislation

: Local regulations may be more stringent than regional or national requirements and must be complied with.

14. TRANSPORT INFORMATION

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US Department of Transportation Classification (49CFR)

Identification number : UN1993
Proper shipping name : UN1993, Flammable liquids, n.o.s., 3, PGIII
Marine Pollutant : No
Special Provisions : N/A
Class / Division : 3.2
Emergency Response Guide 128

IMDG

Identification number UN1993
Proper shipping name UN1993, Flammable liquids, n.o.s., PGIII
Class / Division 3
Packing group II
Marine pollutant: No

IATA (Country variations may apply)

Identification number UN1993
Proper shipping name UN1993, Flammable liquids, n.o.s., PGIII
Class / Division 3
Packing group II

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status
Notification Status



AICS Listed.
DSL Listed.
INV (CN) Listed.
ENCS (JP) Listed.
TSCA Listed.
EINECS Listed.
KECI (KR) Listed.
PICCS (PH) Listed.

Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)

None

Clean Air Act

None

Clean Water Act (CWA) Section 311

None

SARA Hazard Categories (311/312)

Immediate (Acute) Health Hazard. Fire Hazard.

SARA Toxic Release Inventory (TRI) (313)

Ethyl Methacrylate

CA Right-To-Know Chemical List : None

NJ Right-To-Know Chemical List : Ethyl Methacrylate

MA Right-To-Know Chemical List : Ethyl Methacrylate

FL Right-To-Know Chemical List : Ethyl Methacrylate

MN Right-To-Know Chemical List : None

PA Right-To-Know Chemical List : Ethyl Methacrylate

16. Other Regulatory Information

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), 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 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: 6/9/14
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

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) 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 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.

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
Carcinogenity: 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

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Blend
PRODUCT NAME: ACRYGEL UV GEL White
TRADE NAME/PRODUCT CODE: 0028
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
05	Pigment	NA	NA	NE	1.0-5.0

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		

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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.

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Blend

PRODUCT NAME: ACRYGEL UV 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		

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

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: Methacrylate Copolymer
PRODUCT NAME: Acrygel Powder White
TRADE NAME/PRODUCT CODE: 2513
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: 6/9/14
MSDS ID: P7-01

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Polymer	25685-29-4	60.0-100.0

ITEM	ACGIH		OSHA		Company Recommendation	SKIN
	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING		
01	10 mg/m ³	NE	15 mg/m ³	NE	15 mg/m ³	NE

See Section 16 for Abbreviations.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:**WARNING:**

For Polymer:



OSHA classifies this material as Particulates, Not Otherwise Classified.

Acute Hazards:

Eyes:

May be irritating to the eyes by gross overexposure, no matter how generated. Symptoms of overexposure may include redness, itching, irritation and watering. Keep dust out of eyes.

Ingestion:

Not expected to cause any harmful effects. Ingestion of large amounts may be irritating if product is swallowed, may cause nausea, headache, vomiting and/or diarrhea.

Skin:

May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.

Inhalation:

May be irritated by gross overexposure, no matter how generated.

Chronic Hazards:

None known.

CARCINOGENICITY:

None of the components of this material are listed by IARC, NTP, OSHA, 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. If irritation occurs, contact a physician.

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.

INHALATION:

Remove to fresh air. Seek immediate medical attention.

SKIN:

If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

CLOTHING:

Remove contaminated clothing, wash thoroughly before reuse.

TREATMENT:

Treat symptoms conventionally, after thorough decontamination.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:	304 ° C, 580 ° F
FLAMMABLE LIMIT, AIR VOL% LOWER:	NA
UPPER:	NA
AUTOIGNITION TEMPERATURE:	NE
EXTINGUISHER METHOD:	Water, carbon dioxide, dry chemical.
FIRE AND EXPLOSION HAZARDS:	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
SPECIAL FIRE FIGHTING PROCEDURES:	Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into air producing a fire hazard and possible explosion hazard if exposed to ignition source.
EXPLOSION HAZARD:	Firefighters should wear self-contained breathing apparatus.
SENSITIVE TO MECHANICAL IMPACT:	For Polymer: No.
SENSITIVE TO STATIC DISCHARGE:	For Polymer: 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). Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Dispose of properly 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.
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SECTION 7- HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING:	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
PRECAUTIONS FOR STORAGE:	Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Keep container closed to prevent water absorption and contamination.
INDUSTRIAL HYGIENE PRACTICES:	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:	When working with large quantities of product provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.
RESPIRATORY PROTECTION:	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.
EYE PROTECTION:	Depending on the use of this product safety glasses or goggles may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.
PROTECTIVE GLOVES:	If anticipated that prolonged & repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.
OTHER PROTECTIVE EQUIPMENT:	No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. An eyewash station and a safety shower are recommended. High temperature processing equipment should be well ventilated.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Fine clear to pigmented powder.
ODOR:	Faint odor in bulk.
pH:	NA
ODOR THRESHOLD:	ND
BOILING POINT:	NA
FREEZING POINT:	NA
VISCOSITY:	NA
SPECIFIC GRAVITY (H₂O=1):	ND
VAPOR PRESSURE:	NA
PERCENT VOLATILE W/W%:	NA
VAPOR DENSITY (AIR=1):	NA
EVAPORATION RATE (BuAc =1):	NA
SOLUBILITY IN WATER:	Insoluble.
COEFFICIENT OF WATER/OIL DISTRIBUTION:	ND

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	Heating above 240 ° C, 464 ° F.		
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizing agents.		
HAZARDOUS DECOMPOSITION PRODUCTS:	Methacrylate Monomer and Oxides of Carbon when burned.		
HAZARDOUS POLYMERIZATION:	MAY OCCUR:	WILL NOT OCCUR:	X
STABILITY:	UNSTABLE:	STABLE:	X

SECTION 11- TOXICOLOGICAL PROPERTIES

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There is toxicology data for the components of the product, which is found in scientific literature. This data has not been presented in this document.

MUTAGENICITY DATA: This product is not reported to produce mutagenic effects in humans.

REPRODUCTIVE TOXICITY DATA:

Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

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.

ENVIRONMENTAL FATE:

There is no specific data available for this product.


SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:	Dispose of properly 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: POLYMER, NOI
DOT/UN CLASS:
NA/UN NUMBER:
PACKING GROUP:
LABEL:
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 TSCA Inventory. For use in FDA regulated products only.	the
CERCLA Reportable Quantity (RQ):	NA	
Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).	
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:	R36/37/38 – Irritating to eyes, respiratory system and skin.	
SAFETY STATEMENTS:	S3 – Keep in a cool place. S7 – Keep container tightly closed. S9 – Keep container in a well-ventilated place. S20 – When using do not eat or drink. S 29 – Do not empty into drains. S37/39 – Wear suitable gloves and eye/face protection.	

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTIVE EQUIPMENT:	Gloves and Safety Glasses or Chemical Goggles.

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:**

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0

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		
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

SECTION 16 - OTHER INFORMATION CONTINUED

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), 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 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 Copolymer/Polymer Blend

PRODUCT NAME: Acrygel Powder- Clear

TRADE NAME/PRODUCT CODE: 0119

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: 6/9/14
MSDS ID: P21-01

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Polymer	25685-29-4	30.0-70.0
02	Polymer	9003-42-3	30.0-70.0

ITEM	ACGIH		OSHA		Company Recommendation	SKIN
	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING		
01	10 mg/m ³	NE	15 mg/m ³	NE	15 mg/m ³	NE
02	10 mg/m ³	NE	15 mg/m ³	NE	15 mg/m ³	NE

See Section 16 for Abbreviations.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:**WARNING:**

For Polymer:



OSHA classifies this material as Particulates, Not Otherwise Classified.

Acute Hazards:	Eyes:	May be irritating to the eyes by gross overexposure, no matter how generated. Symptoms of overexposure may include redness, itching, irritation and watering. Keep dust out of eyes.
	Ingestion:	Not expected to cause any harmful effects. Ingestion of large amounts may be irritating if product is swallowed, may cause nausea, headache, vomiting and/or diarrhea.
	Skin:	May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.
	Inhalation:	May be irritated by gross overexposure, no matter how generated.
Chronic Hazards:		None known.

CARCINOGENICITY:

None of the components of this material are listed by IARC, NTP, OSHA, 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. If irritation occurs, contact a physician.
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.
INHALATION:	Remove to fresh air. Seek immediate medical attention.
SKIN:	If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.
CLOTHING:	Remove contaminated clothing, wash thoroughly before reuse.
TREATMENT:	Treat symptoms conventionally, after thorough decontamination.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:	304 ° C, 580 ° F
FLAMMABLE LIMIT, AIR VOL% LOWER:	NA
UPPER:	NA
AUTOIGNITION TEMPERATURE:	NE
EXTINGUISHER METHOD:	Water, carbon dioxide, dry chemical.
FIRE AND EXPLOSION HAZARDS:	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
SPECIAL FIRE FIGHTING PROCEDURES:	Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into air producing a fire hazard and possible explosion hazard if exposed to ignition source.
EXPLOSION HAZARD:	Firefighters should wear self-contained breathing apparatus.
SENSITIVE TO MECHANICAL IMPACT:	For Polymer: No.
SENSITIVE TO STATIC DISCHARGE:	For Polymer: 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). Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Dispose of properly 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.
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SECTION 7- HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING:	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
PRECAUTIONS FOR STORAGE:	Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Keep container closed to prevent water absorption and contamination.
INDUSTRIAL HYGIENE PRACTICES:	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:	When working with large quantities of product provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.
RESPIRATORY PROTECTION:	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.
EYE PROTECTION:	Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.
PROTECTIVE GLOVES:	If anticipated that prolonged & repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.
OTHER PROTECTIVE EQUIPMENT:	No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. An eyewash station and a safety shower are recommended. High temperature processing equipment should be well ventilated.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Fine clear to pigmented powder.
ODOR:	Faint odor in bulk.
pH:	NA
ODOR THRESHOLD:	ND
BOILING POINT:	NA
FREEZING POINT:	NA
VISCOSITY:	NA
SPECIFIC GRAVITY (H₂O=1):	ND
VAPOR PRESSURE:	NA
PERCENT VOLATILE W/W%:	NA
VAPOR DENSITY (AIR=1):	NA
EVAPORATION RATE (BuAc =1):	NA
SOLUBILITY IN WATER:	Insoluble.
COEFFICIENT OF WATER/OIL DISTRIBUTION:	ND

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	Heating above 240 ° C, 464 ° F.		
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizing agents.		
HAZARDOUS DECOMPOSITION PRODUCTS:	Methacrylate Monomer and Oxides of Carbon when burned.		
HAZARDOUS POLYMERIZATION:	MAY OCCUR:	WILL NOT OCCUR:	X
STABILITY:	UNSTABLE:	STABLE:	X

SECTION 11- TOXICOLOGICAL PROPERTIES

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There is toxicology data for the components of the product, which is found in scientific literature. This data has not been presented in this document.

MUTAGENICITY DATA: This product is not reported to produce mutagenic effects in humans.

REPRODUCTIVE TOXICITY DATA:

Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

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.

ENVIRONMENTAL FATE:

There is no specific data available for this product.


SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:	Dispose of properly 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: POLYMER, NOI
DOT/UN CLASS:
NA/UN NUMBER:
PACKING GROUP:
LABEL:
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 TSCA Inventory. For use in FDA regulated products only.	the
CERCLA Reportable Quantity (RQ):	NA	
Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).	
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:	R36/37/38 – Irritating to eyes, respiratory system and skin.	
SAFETY STATEMENTS:	S3 – Keep in a cool place. S7 – Keep container tightly closed. S9 – Keep container in a well-ventilated place. S20 – When using do not eat or drink. S 29 – Do not empty into drains. S37/39 – Wear suitable gloves and eye/face protection.	

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTIVE EQUIPMENT:	Gloves and Safety Glasses or Chemical Goggles.

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:**

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0

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		
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

SECTION 16 - OTHER INFORMATION CONTINUED

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), 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 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.