

# Star Nail International MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**CHEMICAL NAME:** Methacrylate Polymer  
**PRODUCT NAME:** Flash Silica Clear  
**TRADE NAME/PRODUCT CODE:** 397  
**PRODUCT USE:** Organic Process Chemical  
**MANUFACTURER:** Star Nail International  
**ADDRESS:** 29120 Avenue Paine  
Valencia, CA 91355  
**PHONE:** 661-257-7827, During Business Hours  
**24 HR. EMERGENCY TELEPHONE:** CHEMTEL 813-248-0573 or 800-255-3924  
**PREPARATION/UPDATE DATE:** 11/13/06  
**PRINT DATE:** 5/22/07  
**MSDS ID:** P1-01

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

### FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Polymer	9003-42-3	60.0-100.0

  

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

See Section 16 for Abbreviations.

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

##### WARNING:

For Polymer:

Acute Hazards:	Eyes:	OSHA classifies this material as Particulates, Not Otherwise Classified. 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**

<b>FLASH POINT:</b>	304 °C, 580 °F
<b>FLAMMABLE LIMIT, AIR VOL% LOWER:</b>	NA
<b>UPPER:</b>	NA
<b>AUTOIGNITION TEMPERATURE:</b>	NE
<b>EXTINGUISHER METHOD:</b>	Water, carbon dioxide, dry chemical.
<b>FIRE AND EXPLOSION HAZARDS:</b>	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	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.
<b>EXPLOSION HAZARD:</b>	Firefighters should wear self-contained breathing apparatus.
<b>SENSITIVE TO MECHANICAL IMPACT:</b>	For Polymer: No.
<b>SENSITIVE TO STATIC DISCHARGE:</b>	For Polymer: No.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>ACCIDENTAL RELEASE:</b>	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**

<b>PRECAUTIONS FOR HANDLING:</b>	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
<b>PRECAUTIONS FOR STORAGE:</b>	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.
<b>INDUSTRIAL HYGIENE PRACTICES:</b>	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**

<b>VENTILATION:</b>	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.
<b>RESPIRATORY PROTECTION:</b>	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.
<b>EYE PROTECTION:</b>	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.
<b>PROTECTIVE GLOVES:</b>	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.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	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**

<b>APPEARANCE:</b>	Fine clear to pigmented powder.
<b>ODOR:</b>	Faint odor in bulk.
<b>pH:</b>	NA
<b>ODOR THRESHOLD:</b>	ND
<b>BOILING POINT:</b>	NA
<b>FREEZING POINT:</b>	NA
<b>VISCOSITY:</b>	NA
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	ND
<b>VAPOR PRESSURE:</b>	NA
<b>PERCENT VOLATILE W/W%:</b>	NA
<b>VAPOR DENSITY (AIR=1):</b>	NA
<b>EVAPORATION RATE (BuAc =1):</b>	NA
<b>SOLUBILITY IN WATER:</b>	Insoluble.
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	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 the TSCA Inventory.  
For use in FDA regulated products only.  
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

Control Number: 04-001

*THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS 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 MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**CHEMICAL NAME:** Methacrylate Polymer  
**PRODUCT NAME:** Flash Silica Natural  
**TRADE NAME/PRODUCT CODE:** 352  
**PRODUCT USE:** Organic Process Chemical  
**MANUFACTURER:** Star Nail International  
**ADDRESS:** 29120 Avenue Paine  
Valencia, CA 91355  
**PHONE:** 661-257-7827, During Business Hours  
**24 HR. EMERGENCY TELEPHONE:** CHEMTEL 813-248-0573 or 800-255-3924  
**PREPARATION/UPDATE DATE:** 11/13/06  
**PRINT DATE:** 5/22/07  
**MSDS ID:** P1-01

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

### FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Polymer	9003-42-3	60.0-100.0

  

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

See Section 16 for Abbreviations.



## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

#### WARNING:

For Polymer:

<p>Acute Hazards:</p>	<p>Eyes:</p> <p>Ingestion:</p> <p>Skin:</p> <p>Inhalation:</p>	<p>OSHA classifies this material as Particulates, Not Otherwise Classified.</p> <p>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.</p> <p>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.</p> <p>May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.</p> <p>May be irritated by gross overexposure, no matter how generated.</p> <p>None known.</p>
<p>Chronic Hazards:</p>		

#### 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:

<p>EYES:</p>	<p>If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.</p>
<p>INGESTION:</p>	<p>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.</p>
<p>INHALATION:</p>	<p>Remove to fresh air. Seek immediate medical attention.</p>
<p>SKIN:</p>	<p>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.</p>
<p>CLOTHING:</p>	<p>Remove contaminated clothing, wash thoroughly before reuse.</p>
<p>TREATMENT:</p>	<p>Treat symptoms conventionally, after thorough decontamination.</p>

## SECTION 5 - FIRE FIGHTING MEASURES

<b>FLASH POINT:</b>	304 °C, 580 °F
<b>FLAMMABLE LIMIT, AIR VOL% LOWER:</b>	NA
<b>UPPER:</b>	NA
<b>AUTOIGNITION TEMPERATURE:</b>	NE
<b>EXTINGUISHER METHOD:</b>	Water, carbon dioxide, dry chemical.
<b>FIRE AND EXPLOSION HAZARDS:</b>	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	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.
<b>EXPLOSION HAZARD:</b>	Firefighters should wear self-contained breathing apparatus.
<b>SENSITIVE TO MECHANICAL IMPACT:</b>	For Polymer: No.
<b>SENSITIVE TO STATIC DISCHARGE:</b>	For Polymer: No.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>ACCIDENTAL RELEASE:</b>	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

<b>PRECAUTIONS FOR HANDLING:</b>	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
<b>PRECAUTIONS FOR STORAGE:</b>	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.
<b>INDUSTRIAL HYGIENE PRACTICES:</b>	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

<b>VENTILATION:</b>	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.
<b>RESPIRATORY PROTECTION:</b>	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.
<b>EYE PROTECTION:</b>	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.
<b>PROTECTIVE GLOVES:</b>	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.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	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

<b>APPEARANCE:</b>	Fine clear to pigmented powder.
<b>ODOR:</b>	Faint odor in bulk.
<b>pH:</b>	NA
<b>ODOR THRESHOLD:</b>	ND
<b>BOILING POINT:</b>	NA
<b>FREEZING POINT:</b>	NA
<b>VISCOSITY:</b>	NA
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	ND
<b>VAPOR PRESSURE:</b>	NA
<b>PERCENT VOLATILE W/W%:</b>	NA
<b>VAPOR DENSITY (AIR=1):</b>	NA
<b>EVAPORATION RATE (BuAc =1):</b>	NA
<b>SOLUBILITY IN WATER:</b>	Insoluble.
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	ND

## SECTION 10 - STABILITY AND REACTIVITY

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

## 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 the TSCA Inventory. For use in FDA regulated products only.  
**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

Control Number: 04-001

*THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS 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 MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**CHEMICAL NAME:** Methacrylate Polymer

**PRODUCT NAME:** Flash Silica Passionate Pink

**TRADE NAME/PRODUCT CODE:** 377

**PRODUCT USE:** Organic Process Chemical

**MANUFACTURER:** Star Nail International  
**ADDRESS:** 29120 Avenue Paine  
Valencia, CA 91355

**PHONE:** 661-257-7827, During Business Hours

**24 HR. EMERGENCY TELEPHONE:** CHEMTEL 813-248-0573 or 800-255-3924

**PREPARATION/UPDATE DATE:** 11/13/06  
**PRINT DATE:** 5/22/07  
**MSDS ID:** P1-01

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

### FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Polymer	9003-42-3	60.0-100.0

  

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

See Section 16 for Abbreviations.

### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:**
**WARNING:**

For Polymer:

Acute Hazards:	Eyes:	OSHA classifies this material as Particulates, Not Otherwise Classified. 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:**

<b>EYES:</b>	If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
<b>INGESTION:</b>	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.
<b>INHALATION:</b>	Remove to fresh air. Seek immediate medical attention.
<b>SKIN:</b>	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.
<b>CLOTHING:</b>	Remove contaminated clothing, wash thoroughly before reuse.
<b>TREATMENT:</b>	Treat symptoms conventionally, after thorough decontamination.



**SECTION 5 - FIRE FIGHTING MEASURES**

<b>FLASH POINT:</b>	304 °C, 580 °F
<b>FLAMMABLE LIMIT, AIR VOL% LOWER:</b>	NA
<b>UPPER:</b>	NA
<b>AUTOIGNITION TEMPERATURE:</b>	NE
<b>EXTINGUISHER METHOD:</b>	Water, carbon dioxide, dry chemical.
<b>FIRE AND EXPLOSION HAZARDS:</b>	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	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.
<b>EXPLOSION HAZARD:</b>	Firefighters should wear self-contained breathing apparatus.
<b>SENSITIVE TO MECHANICAL IMPACT:</b>	For Polymer: No.
<b>SENSITIVE TO STATIC DISCHARGE:</b>	For Polymer: No.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>ACCIDENTAL RELEASE:</b>	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**

<b>PRECAUTIONS FOR HANDLING:</b>	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
<b>PRECAUTIONS FOR STORAGE:</b>	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.
<b>INDUSTRIAL HYGIENE PRACTICES:</b>	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

<b>VENTILATION:</b>	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.
<b>RESPIRATORY PROTECTION:</b>	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.
<b>EYE PROTECTION:</b>	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.
<b>PROTECTIVE GLOVES:</b>	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.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	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

<b>APPEARANCE:</b>	Fine clear to pigmented powder.
<b>ODOR:</b>	Faint odor in bulk.
<b>pH:</b>	NA
<b>ODOR THRESHOLD:</b>	ND
<b>BOILING POINT:</b>	NA
<b>FREEZING POINT:</b>	NA
<b>VISCOSITY:</b>	NA
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	ND
<b>VAPOR PRESSURE:</b>	NA
<b>PERCENT VOLATILE W/W%:</b>	NA
<b>VAPOR DENSITY (AIR=1):</b>	NA
<b>EVAPORATION RATE (BuAc =1):</b>	NA
<b>SOLUBILITY IN WATER:</b>	Insoluble.
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	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 the TSCA Inventory. For use in FDA regulated products only.  
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

Control Number: 04-001

*THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS 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 MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**CHEMICAL NAME:** Methacrylate Polymer  
**PRODUCT NAME:** Flash Silica Pink  
**TRADE NAME/PRODUCT CODE:** 393  
**PRODUCT USE:** Organic Process Chemical  
**MANUFACTURER:** Star Nail International  
**ADDRESS:** 29120 Avenue Paine  
Valencia, CA 91355  
**PHONE:** 661-257-7827, During Business Hours  
**24 HR. EMERGENCY TELEPHONE:** CHEMTEL 813-248-0573 or 800-255-3924  
**PREPARATION/UPDATE DATE:** 11/13/06  
**PRINT DATE:** 5/22/07  
**MSDS ID:** P1-01

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

### FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Polymer	9003-42-3	60.0-100.0

  

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

See Section 16 for Abbreviations.

**SECTION 3 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:****WARNING:**

For Polymer:

Acute Hazards:	Eyes:	OSHA classifies this material as Particulates, Not Otherwise Classified. 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**

<b>FLASH POINT:</b>	304 °C, 580 °F
<b>FLAMMABLE LIMIT, AIR VOL% LOWER:</b>	NA
<b>UPPER:</b>	NA
<b>AUTOIGNITION TEMPERATURE:</b>	NE
<b>EXTINGUISHER METHOD:</b>	Water, carbon dioxide, dry chemical.
<b>FIRE AND EXPLOSION HAZARDS:</b>	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	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.
<b>EXPLOSION HAZARD:</b>	Firefighters should wear self-contained breathing apparatus.
<b>SENSITIVE TO MECHANICAL IMPACT:</b>	For Polymer: No.
<b>SENSITIVE TO STATIC DISCHARGE:</b>	For Polymer: No.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>ACCIDENTAL RELEASE:</b>	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**

<b>PRECAUTIONS FOR HANDLING:</b>	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
<b>PRECAUTIONS FOR STORAGE:</b>	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.
<b>INDUSTRIAL HYGIENE PRACTICES:</b>	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**

<b>VENTILATION:</b>	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.
<b>RESPIRATORY PROTECTION:</b>	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.
<b>EYE PROTECTION:</b>	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.
<b>PROTECTIVE GLOVES:</b>	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.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	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**

<b>APPEARANCE:</b>	Fine clear to pigmented powder.
<b>ODOR:</b>	Faint odor in bulk.
<b>pH:</b>	NA
<b>ODOR THRESHOLD:</b>	ND
<b>BOILING POINT:</b>	NA
<b>FREEZING POINT:</b>	NA
<b>VISCOSITY:</b>	NA
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	ND
<b>VAPOR PRESSURE:</b>	NA
<b>PERCENT VOLATILE W/W%:</b>	NA
<b>VAPOR DENSITY (AIR=1):</b>	NA
<b>EVAPORATION RATE (BuAc =1):</b>	NA
<b>SOLUBILITY IN WATER:</b>	Insoluble.
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	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 the TSCA Inventory. For use in FDA regulated products only.  
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

Control Number: 04-001

*THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS 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 MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**CHEMICAL NAME:** Methacrylate Polymer  
**PRODUCT NAME:** Flash Silica Super White  
**PRODUCT USE:** Organic Process Chemical  
**MANUFACTURER:** Star Nail International  
**ADDRESS:** 29120 Avenue Paine  
Valencia, CA 91355  
**PHONE:** 661-257-7827, During Business Hours  
**24 HR. EMERGENCY TELEPHONE:** CHEMTEL 813-248-0573 or 800-255-3927  
**PREPARATION/UPDATE DATE:** 11/29/06  
**PRINT DATE:** 5/22/07  
**MSDS ID:** P1-01

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

### FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Polymer	9003-42-3	60.0-100.0

  

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

See Section 16 for Abbreviations.

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

##### WARNING:

For Polymer:

Acute Hazards:	Eyes:	OSHA classifies this material as Particulates, Not Otherwise Classified. 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

<b>FLASH POINT:</b>	304 °C, 580 °F
<b>FLAMMABLE LIMIT, AIR VOL% LOWER:</b>	NA
<b>UPPER:</b>	NA
<b>AUTOIGNITION TEMPERATURE:</b>	NE
<b>EXTINGUISHER METHOD:</b>	Water, carbon dioxide, dry chemical.
<b>FIRE AND EXPLOSION HAZARDS:</b>	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	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.
<b>EXPLOSION HAZARD:</b>	Firefighters should wear self-contained breathing apparatus.
<b>SENSITIVE TO MECHANICAL IMPACT:</b>	For Polymer: No.
<b>SENSITIVE TO STATIC DISCHARGE:</b>	For Polymer: No.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>ACCIDENTAL RELEASE:</b>	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

<b>PRECAUTIONS FOR HANDLING:</b>	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
<b>PRECAUTIONS FOR STORAGE:</b>	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.
<b>INDUSTRIAL HYGIENE PRACTICES:</b>	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

<b>VENTILATION:</b>	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.
<b>RESPIRATORY PROTECTION:</b>	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.
<b>EYE PROTECTION:</b>	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.
<b>PROTECTIVE GLOVES:</b>	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.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	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

<b>APPEARANCE:</b>	Fine clear to pigmented powder.
<b>ODOR:</b>	Faint odor in bulk.
<b>pH:</b>	NA
<b>ODOR THRESHOLD:</b>	ND
<b>BOILING POINT:</b>	NA
<b>FREEZING POINT:</b>	NA
<b>VISCOSITY:</b>	NA
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	ND
<b>VAPOR PRESSURE:</b>	NA
<b>PERCENT VOLATILE W/W%:</b>	NA
<b>VAPOR DENSITY (AIR=1):</b>	NA
<b>EVAPORATION RATE (BuAc =1):</b>	NA
<b>SOLUBILITY IN WATER:</b>	Insoluble.
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	ND



## SECTION 10 - STABILITY AND REACTIVITY

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

## 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 the TSCA Inventory. For use in FDA regulated products only.  
**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

*THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS 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 MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**CHEMICAL NAME:** Methacrylate Polymer  
**PRODUCT NAME:** Flash Silica White  
**TRADE NAME/PRODUCT CODE:** 390  
**PRODUCT USE:** Organic Process Chemical  
**MANUFACTURER:** Star Nail International  
**ADDRESS:** 29120 Avenue Paine  
Valencia, CA 91355  
**PHONE:** 661-257-7827, During Business Hours  
**24 HR. EMERGENCY TELEPHONE:** CHEMTEL 813-248-0573 or 800-255-3924  
**PREPARATION/UPDATE DATE:** 3/31/06  
**PRINT DATE:** 5/22/07  
**MSDS ID:** P1-01

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

### FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Polymer	9003-42-3	60.0-100.0

  

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

See Section 16 for Abbreviations.

**SECTION 3 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:****WARNING:**

For Polymer:

Acute Hazards:	Eyes:	OSHA classifies this material as Particulates, Not Otherwise Classified. 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**

<b>FLASH POINT:</b>	304 °C, 580 °F
<b>FLAMMABLE LIMIT, AIR VOL% LOWER:</b>	NA
<b>UPPER:</b>	NA
<b>AUTOIGNITION TEMPERATURE:</b>	NE
<b>EXTINGUISHER METHOD:</b>	Water, carbon dioxide, dry chemical.
<b>FIRE AND EXPLOSION HAZARDS:</b>	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	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.
<b>EXPLOSION HAZARD:</b>	Firefighters should wear self-contained breathing apparatus.
<b>SENSITIVE TO MECHANICAL IMPACT:</b>	For Polymer: No.
<b>SENSITIVE TO STATIC DISCHARGE:</b>	For Polymer: No.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>ACCIDENTAL RELEASE:</b>	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**

<b>PRECAUTIONS FOR HANDLING:</b>	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
<b>PRECAUTIONS FOR STORAGE:</b>	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.
<b>INDUSTRIAL HYGIENE PRACTICES:</b>	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**

<b>VENTILATION:</b>	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.
<b>RESPIRATORY PROTECTION:</b>	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.
<b>EYE PROTECTION:</b>	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.
<b>PROTECTIVE GLOVES:</b>	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.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	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**

<b>APPEARANCE:</b>	Fine clear to pigmented powder.
<b>ODOR:</b>	Faint odor in bulk.
<b>pH:</b>	NA
<b>ODOR THRESHOLD:</b>	ND
<b>BOILING POINT:</b>	NA
<b>FREEZING POINT:</b>	NA
<b>VISCOSITY:</b>	NA
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	ND
<b>VAPOR PRESSURE:</b>	NA
<b>PERCENT VOLATILE W/W%:</b>	NA
<b>VAPOR DENSITY (AIR=1):</b>	NA
<b>EVAPORATION RATE (BuAc =1):</b>	NA
<b>SOLUBILITY IN WATER:</b>	Insoluble.
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	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 the TSCA Inventory. For use in FDA regulated products only.  
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

Control Number: 04-001

*THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS 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.*