

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Blend
PRODUCT NAME: Calcium Kapping Gel
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		

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.

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Blend
PRODUCT NAME: White Kapping Building Gel
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		

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

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