

SECTION I - PRODUCT IDENTIFICATION

CHEMICAL NAME: Methacrylate Copolymer
PRODUCT NAME: ADVANCED ORIGINAL CRYSTAL

FOR USE IN FDA REGULATED PRODUCTS ONLY

DOT/UN SHIPPING NAME: SYNTHETIC GUM RESIN GRANULAR, NOIBN
NMFC ITEM #46030, SCHEDULE B 3906.90.6000

CAS REG. NO.: NE **TRADE NAME:** ORIGINAL CRYSTAL

FORMULA: Proprietary Formulation

MANUFACTURER: ODYSSEY NAIL SYSTEMS
ADDRESS: 6498 Wilcrest Dr
Houston, TX 77072

FOR INFORMATION CALL: 610/497-9000 During Business Hours
610/497-9000, Then Press 6 At All Other Times

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PREPARED BY: LHC

SECTION II - HAZARDOUS INGREDIENTS OF MIXTURES

HAZARDOUS COMPONENT	CAS REG. NO.	%	TLV	(UNITS)	PEL	(UNITS)
Particulates NOC	NE	<99	10	mg/m ³	15	mg/m ³
Residual Monomers	NA	< 1	NA		NA	
Trade Secret	NA	< 5	10	mg/m ³	6	mg/m ³

SECTION III - PHYSICAL DATA

BOILING POINT: NA **SPECIFIC GRAVITY (H₂O=1):** 1.25
VAPOR PRESSURE: NA **PERCENT VOLATILE W/W%:** NA
VAPOR DENSITY (AIR=1): NA **EVAPORATION RATE (=1):** NA
SOLUBILITY IN WATER: Insoluble.
APPEARANCE AND ODOR: Fine white powder. Faint odor in bulk.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 304 °C **FLAMMABLE LIMIT, AIR VOL% LOWER:** NA
580 °F **UPPER:** NA

AUTOIGNITION TEMPERATURE: NE

EXTINGUISHER METHOD: Water, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES:

Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into air, producing a fire hazard and possible explosion hazard if exposed to ignition source.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Firefighters should wear self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eyes or skin(no absorption); inhalation of dusts.

CARCINOGENICITY:

None of the components of this material are listed by IARC, NTP, OSHA, or ACIGH as carcinogens.

TARGET ORGANS:

For Polymer: None Listed. For decomposition products, Methyl Methacrylate Monomer: Nose, liver and kidneys; Ethyl Methacrylate Monomer: None Listed. For Trade Secret: None Listed.

THRESHOLD LIMIT VALUE (TLV):

For polymer: NE. For decomposition products, Ethyl Methacrylate Monomer: NE, however recommend 100 ppm; Methyl Methacrylate Monomer: 100 ppm. For Trade Secret: 10 mg/m³.

PERMISSIBLE EXPOSURE LIMIT (PEL):

For polymer: NE. For decomposition products, Ethyl Methacrylate Monomer: NE, however recommend 100 ppm; Methyl Methacrylate Monomer: 100 ppm. For Trade Secret: 6 mg/m³.

TOXICITY DATA:

For Polymer: None Listed. RTECS: Not Listed. TSCA: Listed.

For decomposition products, Methyl Methacrylate Monomer: LD₅₀ Acute Oral Rat: 7990 mg/kg. LD₅₀ Acute Dermal Rabbit: 35,500 mg/kg. LC₅₀ Acute Inhalation Rat: >12,500 to 16,500 ppm for 0.5 hours. TC_{L0} Inhalation Human: 125 ppm. TC_{L0} Inhalation Human: 60 mg/m³. Human Patch Test: Approximate one-third of subjects developed mild redness at the site of application. Twenty percent showed sensitivity when tested 10 days later.

SECTION V - HEALTH HAZARD DATA CONTINUED**TOXICITY DATA CONTINUED:**

For decomposition products, Methyl Methacrylate Monomer Continued: Reproductive Effects: TC_{L0} Inhalation Rat: 109 gm/m³/54 minutes, 6-15 days of pregnancy. TC_{L0} Inhalation Rat: 54 mg/m³/24 hours, 8 weeks of pregnancy. TC_{L0} Inhalation Rat: 4480 mg/m³/2 hours, 6-18 days of pregnancy. RTECS: OZ50750000. TSCA: Listed. EINECS: Listed.

Ethyl Methacrylate Monomer: LC_{L0} Inhalation Rat: 8300 ppm/4H. LD₅₀ Intraperitoneal Mouse: 1369 mg/kg. LD₅₀ Intraperitoneal Rat: 1223 mg/kg. LD₅₀ Oral Mouse: 7836 mg/kg. LD₅₀ Oral Rat: 13,486 mg/kg. LD₅₀ Oral Rabbit: 3630 mg/kg. ALD Dermal Rabbit: >10,000 mg/kg. LD_{L0} Subcutaneous Rat: 25 gm/kg. RTECS: OZ4550000. TSCA: Listed. EINECS: Listed.

For Trade Secret: LD₅₀ Oral Mouse: 3160 mg/kg. LD_{L0} Intravenous Mouse: 234 mg/kg. RTECS: VV8850000. TSCA: Listed. EINECS: Listed.

EFFECTS OF OVER EXPOSURE:

For Polymer: OSHA classifies this material as Particulates, Not Otherwise Classified. Eyes, Skin and Respiratory Tract may be irritated by gross overexposure to Particulates, Not Otherwise Classified, no matter how they are generated. Avoid inhalation of dust. Keep dust out of eyes to prevent possible irritation.

For decomposition products, Methyl Methacrylate Monomer: Liquid or high vapor concentration can irritate eyes, respiratory system and cause skin rashes. Prolonged exposure can lead to headaches, nausea, staggering gait, confusion, drowsiness and unconsciousness. Repeated and prolonged over exposure may cause permanent brain and nervous system damage, allergic skin rashes, eye corrosion and permanent injury, as well as changes in liver and kidney function or damage.

Ethyl Methacrylate Monomer: Liquid or high vapor concentration can irritate eyes and respiratory system and cause skin rashes. Mucous membrane irritation and rapid respiration was seen in animals from a single exposure by inhalation. Toxicity in animals administered lethal oral doses include weakness, labored and irregular respiration, drop in arterial blood pressure and coma. Effects in humans include skin irritation with discomfort or allergic skin rashes. Eye contact may cause irritation with discomfort, tearing, or blurring of vision. Inhalation may cause irritation of the respiratory tract with coughing, of nonspecific discomfort, such as nausea, headache and or weakness. Ingestion may cause anesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. May also cause allergic reaction.

For Trade Secret: May cause eye or respiratory irritation. Possible temporary discomfort due to inhalation of dust concentration above the permissible exposure limit. Human studies have found that workplace exposures to this material does not cause chronic health effects. However, some researchers believe that chronic inflammation, lung fibrosis and lung tumors can be developed for exposure to levels of insoluble dust above the industry standard of 6 mg/m³. This exposure results in dust overload phenomenon which is due to the lung clearance mechanism being overloaded. Amorphous fumed silica was not used in these research tests.

SECTION V - HEALTH HAZARD DATA CONTINUED**EMERGENCY AND FIRST AID PROCEDURES:**

INHALATION:	Remove to fresh air. Get medical help if discomfort persists.
EYES:	Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.
SKIN:	Wash with soap and water. Get medical help if discomfort persists.
INGESTION:	Rinse mouth out with water. Call doctor if amount was large.
CLOTHING:	Wash thoroughly before reuse.
TREATMENT:	Treat symptoms after thorough decontamination.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

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

SECTION VI - REACTIVITY DATA

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

SECTION VII - SPILL OR LEAK PROCEDURE**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills.

ENVIRONMENTAL EFFECTS:**AQUATIC TOXICITY:**

For Methyl Methacrylate Monomer: Estimate of 96 hours median Threshold limit(TLm₉₆): 100-1000 ppm. Flathead minnows and goldfish TLm₂₄: 420 ppm. Bluegills TLm₂₄: 368 ppm.

WASTE DISPOSAL METHOD:

Dispose in a landfill or incinerate according to Federal, State, and Local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION**RESPIRATORY PROTECTION (SPECIFY TYPE):**

Use type for Particulates Not Otherwise Classified, if needed.

VENTILATION:

Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

PROTECTIVE GLOVES:

If hot plastic is handled.

EYE PROTECTION:

Safety glasses or chemical splash goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

High temperature processing equipment should be well ventilated.

SECTION IX - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Store in cool dry place. Keep container closed to prevent water absorption and contamination.

OTHER PRECAUTIONS:

Wash face and hands thoroughly with soap and water after use and before eating, drinking, smoking or applying cosmetics.

SECTION X - ADDITIONAL INFORMATION

Prepared By: _____ Health, Safety and Environment

Reviewed By: _____ Technical Review

Reviewed By: _____ Senior Company Officer

Issue Date: _____

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) AND THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) 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.