odyssey nail systems MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Polymer

PRODUCT NAME: Type 381, Cosmetic Polymer, Clear, with added BPO

TRADE NAME/PRODUCT CODE: **Competition Crystal**

PRODUCT USE: Organic Process Chemical

MANUFACTURER: Odyssey Nail Systems ADDRESS: 6498 Wilcrest Dr

Houston, TX 77072

24 HR. EMERGENCY TELEPHONE: CHEMTREC: 1-800-424-9300

PREPARED BY: C. J. Bruner, HEALTH & SAFETY DEPARTMENT

1-610-497-9000 During Business Hours PHONE:

1-610-497-9000, Then Press 6 At All Other Times

PREPARATION/UPDATE DATE: 11/05/01 **PRINT DATE:** 3/3/11

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Particulates Not Otherwise Classified	NE	60.0-100.0
02	Residual Monomers	NA	0.5-5.0
03	Polymer	9003-42-3	60.0-100.0
04	Benzoyl Peroxide	94-36-0	1.0-5.0

ACGIH			OSHA		Company	
ITEM	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING	Recommendation	SKIN
01	10 mg/m ³	NE	15 mg/m ³	NE	NE	NE
02	NA	NA	NA	NA	NA	NA
03	NE	NE	NE	NE	NE	NE
04	5 m/m ³	NE	5 m/m ³	NE	NE	NE

FOR DECOMPOSITION PRODUCTS:

ITEM CHEMICAL NAME **CAS NUMBER:** WT/WT % Ethyl Methacrylate Monomer 97-63-2 60.0-100.0 05

> **ACGIH OSHA** Company

TLV-TWA **TLV-STEL PEL TWA PEL CEILING** Recommendation **SKIN** ITEM 100 ppm 05 100 ppm NE 100 ppm NE NE

See Section 16 for Abbreviations.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: For Polymer: May irritate eyes, skin and respiratory tract.

For Polymer: OSHA classifies this material as Particulates, Not

Otherwise Classified.

Eyes: May be irritated by gross overexposure, no matter how

generated. Keep dust out of eyes.

Skin May be irritated by gross overexposure, no matter how

generated. May cause dryness.

Respiratory Tract May be irritated by gross overexposure, no matter how

generated.

For Benzoyl Peroxide: Eyes: May cause irritation or damage.

Skin: Prolonged and/or repeated skin contact may cause

irritation, defatting, dermatitis and sensitization.

Inhalation: May cause irritation of nose, throat and lungs.

Ingestion: May produce muscular weakness.

For Decomposition Products:

Ethyl Methacrylate:

Acute Hazards: Eyes: Eye contact may cause irritation with discomfort, tearing, or

blurring of vision.

Respiratory Tract: Inhalation may cause irritation of the respiratory tract with

coughing, of nonspecific discomfort, such as nausea,

headache and or weakness.

Skin: Effects in humans include skin irritation with discomfort or

allergic skin rashes.

Digestive Tract: 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.

Chronic Hazards: Skin: May cause allergic skin rashes.

Animal Studies: Administered lethal oral doses include weakness, labored

and irregular respiration, drop in arterial blood pressure

and coma.

SECTION 3 - HAZARDS IDENTIFICATION CONTINUED

CARCINOGENICITY: IARC lists Benzoyl Peroxide as not classifiable as to

carcinogenicity to humans. None of the other 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: Flush with water for 15 minutes, including under eyelids. Get medical help if

discomfort persists.

INGESTION: Rinse mouth out with water. Call doctor if amount was large.

INHALATION: Remove to fresh air. Get medical help if discomfort persists.

SKIN: Wash with soap and water. Get medical help if discomfort persists.

CLOTHING: Remove contaminated clothing. Wash thoroughly before reuse.

TREATMENT: Treat symptoms conventionally, after thorough decontamination.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 304 °C, 580 °F

FLAMMABLE LIMIT, AIR VOL% LOWER: NA UPPER: NA AUTOIGNITION TEMPERATURE: NE

EXTINGUISHER METHOD: Water, carbon dioxide, dry chemical.

FIRE AND EXPLOSION HAZARDS: Polymer dust is combustible. The explosive limits of the polymer

particles suspended in air are approximately those of coal dust. Avoid extinguishing methods which may generate dust clouds.

SPECIAL FIRE FIGHTING PROCEDURES: Avoid extinguishing methods which may generate dust clouds.

Water stream can disperse dust into air, producing a fire hazard and possible explosion hazard if exposed to ignition source.

EXPLOSION HAZARD: Firefighters should wear self-contained breathing apparatus.

SENSITIVE TO MECHANICAL IMPACT: For Polymer: No.

SENSITIVE TO STATIC DISCHARGE: For Polymer: No.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE: Isolate hazard area and deny entry to unnecessary or unprotected

personnel. Sweep up to avoid slipping hazard. Keep airborne

particulates at a minimum when cleaning up spills.

SECTION 7- HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: Use in well ventilated areas. Avoid contact with skin, eyes and

clothing. Avoid breathing dust. Use good personal hygiene and

housekeeping.

PRECAUTIONS FOR STORAGE: Store in cool dry place away for incompatible materials. Keep

container closed to prevent water absorption and contamination.

INDUSTRIAL HYGIENE PRACTICES: Wash face and hands thoroughly with soap and water after use and

before eating, drinking, smoking or applying cosmetics.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: Use good, local exhaust at processing equipment, including buffers,

sanders, grinders and polishers.

RESPIRATORY PROTECTION: Use type for Particulates Not Otherwise Classified, if needed.

EYE PROTECTION: Safety glasses or chemical splash goggles.

PROTECTIVE GLOVES: Impervious, nitrile, if hot plastic is handled.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash, safety shower and impervious clothing are

recommended. High temperature processing equipment should be

well ventilated.

INDUSTRIAL HYGIENE PRACTICES: Wash face and hands thoroughly with soap and water after use and

before eating, drinking, smoking or applying cosmetics.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Fine white powder.

ODOR: Faint odor in bulk.

ND pH: **ODOR THRESHOLD:** ND **BOILING POINT:** NA **FREEZING POINT:** ND VISCOSITY: NA **SPECIFIC GRAVITY** (H₂O=1): 1.25 **VAPOR PRESSURE:** NA **PERCENT VOLATILE W/W%:** NA **VAPOR DENSITY** (AIR=1): NA **EVAPORATION RATE** (BuAc =1): 3.0 **SOLUBILITY IN WATER:** Insoluble.

COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heating above 240 °C, 464 °F.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Methacrylate Monomer and Oxides of Carbon when burned.

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X

STABILITY: UNSTABLE: STABLE: X

SECTION 11- TOXICOLOGICAL PROPERTIES

TARGET ORGANS:

For Polymer; None Listed. For Benzoyl Peroxide: Skin and eyes.

For Decomposition Products:

Ethyl Methacrylate: None Listed.

SENSITIVITY DATA:

For Benzoyl Peroxide:

Eyes Rabbit: Severely irritating. Skin Rabbit: Non-irritating/4H.

For Decomposition Products:

Ethyl Methacrylate:

Eyes RabbitDraizeNon-irritating.Skin RabbitOcclusive, FDA DraizeNon-irritating/24H.Guinea PigFCATSensitizing.Guinea PigMaximization TestSensitizing.

Observation Humans Allergic Contact Dermatitis.

MUTAGENICITY DATA:

For Polymer: None Listed.

For Benzoyl Peroxide:

For Decomposition Products:

Ethyl Methacrylate: Positive tests as a mutagen on laboratory animals. Positive as well

as negative results in in-vitro mutagenicity/genotoxicity tests.

REPRODUCTIVE TOXICITY DATA:

For Polymer: None Listed.

For Decomposition Products: None Listed.

Ethyl Methacrylate:

TUMOROGENIC DATA:

For Polymer: None Listed.

For Benzovl Peroxide:

Skin Mouse TD_{Lo}: 24 gm/kg/30W.

SECTION 11- TOXICOLOGICAL PROPERTIES CONTINUED

TOXICITY DATA:

For Polymer: None Listed.

For Benzoyl Peroxide:

For Decomposition Products:

Ethyl Methacrylate:

LD₅₀: **Dermal Rabbit** >9100 mg/kg. >5000 mg/kg. **Dermal Rabbit** LD₅₀: Inhalation Rat LC₅₀: 8300 ppm/4H. 1369 mg/kg. Intraperitoneal Mouse LD₅₀: Intraperitoneal Rat LD₅₀: 1223 mg/kg. Oral Mouse LD₅₀: 7836 mg/kg. Oral Rat 14800 mg/kg. LD₅₀: Oral Rat LD₅₀: 13424 mg/kg. Oral Rat LD₅₀: > 5000 mg/kg.3630 mg/kg. Oral Rabbit LD₅₀: Subcutaneous Rat 25 gm/kg. LD_{Lo:}

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

For Polymer: None Listed.

For Benzoyl Peroxide:

For Decomposition Products:

Ethyl Methacrylate:

ECOLOGICAL TOXICITY:

For Polymer: Not Known.

ENVIRONMENT FATE:

For Benzoyl Peroxide: 28 Day Biodegradation Study: Almost 60% in a closed bottle test.

For Decomposition Products:

Ethyl Methacrylate: Biodegradation: Inherently biodegradable (69%).

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in a landfill or incinerate according to 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. It is our policy to discourage the reuse of empty containers and to dispose of all empty containers properly, in accordance with Federal, State and

Local regulations.

SECTION 14 - TRANSPORTATION

DOT/UN SHIPPING NAME: SYNTHETIC GUM RESIN GRANULAR, NOIBN

DOT/UN CLASS: NA/UN NUMBER: PACKING GROUP:

NAERG: LABEL:

NMFC ITEM #: 46030 **SCHEDULE B:** 3906.90.6000

IMDG CLASS: IMDG PG:

CERCLA RQ: For Decomposition Products:

Ethyl Methacrylate Monomer: 1000 lb.

SECTION 15 - REGULATORY INFORMATION

ITEM 03 04	TSCA X X	EINEC X X	S	CERCL X	-A	CAA X	CWA	RCRA U 118	SARA 313 X	MAK
ITEM 04	AUSTF	RALIA	CANAI X	DA	CHINA	JAPAN	KOREA	Ą	PHILIPPINE	
ITEM 04	CA65 X	FL X	MA X	MI	MN	NJ	NY	PA X	WA	

TSCA: FOR USE IN FDA REGULATED PRODUCTS ONLY

CANADIAN WHMIS: This product has been classified in accordance with the hazardous criteria of the

CPR and the MSDS contains all the information required by the CPR.

SECTION 15 - REGULATORY INFORMATION CONTINUED

RISK STATEMENTS: R36/37 – Irritating to eyes and respiratory system.

R43 – May cause sensitization by skin contact.

SAFETY STATEMENTS: S3 – Keep in a cool place.

S7/8 – Keep container tightly closed and dry. S20/S21 – When using do not eat, drink or smoke.

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S37/S39 – 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 Splash 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 CPR Controlled Products Regulation

ppm parts per million G Gallon Milligram L Liter mg Mole gm Gram mol Kilogram Micro kg μ Millimeter mm Pico р Pa **Pascals** cento С

LCLethal ConcentrationLDLethal DoseTCToxic ConcentrationTDToxic Dose

BOD Biological Oxygen Demand
Lo Lowest ThOD Theoretical Oxygen Demand
TLm Threshold Limit IC Inhibitory Concentration

H Hours M Months D Days Y Years

W Weeks

OSHA Occupational Safety and Health Administration

ACGIH American Conference of Governmental Industrial Hygienist

IARC International Agency for Research for Cancer

TLV Threshold Limit Value
PEL Permissible Exposure Limit
NOEL No Observed Effect Level

NOAEL No Observed Adverse Effect Level

SECTION 16 - OTHER INFORMATION CONTINUED

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), 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.