

SOFT-FIT. MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

CHEMICAL NAME: Vinyl Polymer

PRODUCT NAME: Type 002, Clear

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.:
A 002 0000

NE

TRADE NAME/PRODUCT CODE:

FORMULA: Proprietary Formulation

Exclusive Agent:
ADDRESS:

Imperial Trading, LTD.
Dental & Lab Supplies
72-59 Kissena Blvd., Second Floor
Flushing, NY 11367
(718) 793-7490 call collect **(800) 733-7490**
Fax (718) 793-9831

FOR INFORMATION CALL:

FOR EMERGENCY CALL:

PRINT DATE: 01/7/10

UPDATE : 02/01/10

PREPARED BY: CJB

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	< 2	NE		NE	

SECTION III - PHYSICAL DATA

BOILING POINT: NA SPECIFIC GRAVITY (H₂O=1):
1.185

VAPOR PRESSURE: NA PERCENT VOLATILE W/W%:
NA

VAPOR DENSITY (AIR=1): NA EVAPORATION RATE (=1):
NA

SOLUBILITY IN WATER:

Insoluble.

APPEARANCE AND ODOR:
bulk.

Fine white powder. Faint odor in

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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

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 product, Methyl Methacrylate Monomer: Nose, liver and kidneys. For Trade Secret: None Listed.

THRESHOLD LIMIT VALUE (TLV):

For Polymer: NE. For decomposition product, Methyl Methacrylate Monomer: 100 ppm. For Trade Secret: NE.

PERMISSIBLE EXPOSURE LIMIT (PEL):

For polymer: NE. For decomposition product, Methyl Methacrylate Monomer: 100 ppm. For Trade Secret: NE.

TOXICITY DATA:

For Polymer: None Listed. RTECS: Not Listed. TSCA: Listed.
For decomposition product, Methyl Methacrylate Monomer: LD₅₀ Acute Oral Rat: 7990 mg/kg. LD₅₀ Acute Dermal Rabbit: 35,500 mg/kg. LC₅₀ Acute Inhalation

SECTION V - HEALTH HAZARD DATA CONTINUED

TOXICITY DATA CONTINUED:

For Trade Secret: TD_{Lo} Oral Rat: 45 gm/kg. TD_{Lo} Oral Rat: 54 gm/kg. LD₅₀ Intraperitoneal Mouse: 300 mg/kg. LD₅₀ Oral Rat: 7400mg/kg. RTECS: Listed. 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 product, 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.

For Trade Secret: May irritate eyes and skin with direct contact.

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.

SECTION VI - REACTIVITY DATA CONTINUED

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:

Incinerate material in accordance with 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: _____ R. FOX _____ Senior Officer

Issue Date: _____ 02/01/10 _____

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.

Soft-Fit Liquid. MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

CHEMICAL NAME: Plasticized Blend
PRODUCT NAME: Type 204, Liquid, Clear

FOR USE IN FDA REGULATED PRODUCTS ONLY

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

CAS REG. NO.: NE TRADE NAME/PRODUCT CODE: H 204 0000

FORMULA: Proprietary Formulation

ADDRESS:

Imperial Trading, LTD.
Dental & Lab Supplies
72-59 Kissena Blvd., Second Floor
Flushing, NY 11367
(718) 793-7490 call collect **(800) 733-7490**
Fax (718) 793-9831

FOR INFORMATION CALL:

FOR EMERGENCY CALL:

PRINT DATE: 2/23/10

UPDATE : 12/07/09

PREPARED BY: CJB

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	
Dialkyl Phthalate	84-66-2	<15	5	mg/m ³	5	mg/m ³
Trade Secret	NA	< 5	NE		NE	

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 liquid. Faint odor in bulk.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 304 °C
580 °F

FLAMMABLE LIMIT, AIR VOL% LOWER: NA
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:

Dust is combustible.

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 product, Methyl Methacrylate Monomer: Nose, liver and kidneys. For Dialkyl Phthalate: None Listed. For Trade Secret: None Listed.

THRESHOLD LIMIT VALUE (TLV):

For Polymer: NE. For decomposition product, Methyl Methacrylate Monomer: 100 ppm. For Dialkyl Phthalate: 5 mg/m³. For Trade Secret: NE.

PERMISSIBLE EXPOSURE LIMIT (PEL):

For polymer: NE. For decomposition product, Methyl Methacrylate Monomer: 100 ppm. For Dialkyl Phthalate: 5 mg/m³. For Trade Secret: NE.

SECTION V - HEALTH HAZARD DATA CONTINUED

TOXICITY DATA:

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

For decomposition product, 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_{Lo} Inhalation Human: 125 ppm. TC_{Lo} 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.

Reproductive Effects: TC_{Lo} Inhalation Rat: 109 gm/m³/54 minutes, 6-15 days of pregnancy.

TC_{Lo} Inhalation Rat: 54 mg/m³/24 hours, 8 weeks of pregnancy. TC_{Lo} Inhalation Rat: 4480 mg/m³/2 hours, 6-18 days of pregnancy. RTECS: Listed. TSCA: Listed. EINECS: Listed.

For Dialkyl Phthalate: TC₅₀ Inhalation Human: 1000 mg/m³. LD₅₀ Intraperitoneal Mouse: 2749 mg/kg. LD₅₀ Intraperitoneal Rat: 5058 mg/kg. LD_{Lo} Intravenous Rabbit: 100 mg/kg. LD₅₀ Oral Guinea Pig: 8600 mg/kg. LD₅₀ Oral Mouse: 6172 mg/kg. LD₅₀ Oral Rat: 8600 mg/kg. LD_{Lo} Oral Rabbit: 1000 mg/kg. LD_{Lo} Subcutaneous Guinea Pig: 3000 mg/kg. RTECS: Listed. TSCA: Listed. EINECS: Listed.

For Trade Secret: None Listed. RTECS: Not Listed. 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 product, 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.

For Dialkyl Phthalate: Direct contact with the liquid or exposure to its vapors or mists may cause burning, tearing, redness and swelling of the eyes. Prolonged or repeated skin exposure may cause redness, burning, drying, cracking and dermatitis. Person with pre-existing skin disorders may be more susceptible to this material. Inhalation of excessive amounts may cause irritation of the nose and throat, central nervous system depression such as drowsiness, dizziness, loss of coordination and fatigue. Persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties. Ingestion of large amounts may cause irritation of the digestive tract and signs of central nervous system depression.

For Trade Secret: None expected. No data is available.

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.

SECTION V - HEALTH HAZARD DATA CONTINUED

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: High temperatures and strong oxidizing agents.

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.
For Dialkyl Phthalate: 96 hours (96-h) LC₅₀, Flathead minnow: 10-100 µl/L. 96-h LC₅₀, Water flea: 10-100µl/L; 75 mg/l. 48-h LC₅₀, Golden orfe (minnow): 53 mg/l; 61 mg/l.

OXYGEN DEMAND:

For Dialkyl Phthalate: COD: 2.10 g/g; 1.66 g/g. BOD: 2.00 g/g.

PLANT GERMINATION:

For Dialkyl Phthalate: No adverse effect at: Ryegrass: 10 :/l. Radish: 10 :/l. Lettuce: 10 µl/L.

PLANT SEEDLING:

For Dialkyl Phthalate: No adverse effects at: Marigold: > 100 :/l. Radish: > 100 :/l. Corn: > 100 :/l. Lettuce: > 100 :/l.

WASTE DISPOSAL METHOD:

Contains a Dialkyl Phthalate, contaminated product may be a RCRA/OSHA hazardous waste (40 CFR Part 261 and 29 CFR Part 1910). Incinerate material in accordance with 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: _____ R. FOX _____ Senior Officer

Issue Date: _____ 12/07/09 _____

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Rat: >12,500 to 16,500 ppm for 0.5 hours. TC_{Lo} Inhalation Human: 125 ppm.
TC_{Lo} 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.
Reproductive Effects: TC_{Lo} Inhalation Rat: 109 gm/m³/54 minutes, 6-15 days of pregnancy. TC_{Lo} Inhalation Rat: 54 mg/m³/24 hours, 8 weeks of pregnancy.
TC_{Lo} Inhalation Rat: 4480 mg/m³/2 hours, 6-128 days of pregnancy. RTECS: Listed. TSCA: Listed. EINECS: Listed