



MATERIAL SAFETY DATA SHEET
Facsimile Powder

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SECTION I - PRODUCT IDENTIFICATION

CHEMICAL NAME: Blended, Pigmented, Filled, Acrylic Polymers

PRODUCT NAME: F. P. Tray Polymer, #64 Blue, Shade #26151

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/PRODUCT CODE:** M 044 5066

FORMULA: Proprietary Formulation

MANUFACTURER: Flexbar Machine Corporation
ADDRESS: 250 Gibbs Road
Islandia, NY 11749-2697

FOR INFORMATION CALL: 1-631-582-8440 During Business Hours
1-610-497-9000, Then Press 6 At All Other Times

FOR EMERGENCY CALL: 1-800-424-9300, Chemtrec

PRINT DATE: 4/20/06

UPDATE : 04/20/06

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	
Calcium Carbonate	471-34-1	<50	10	mg/m ³	15	mg/m ³
Benzoyl Peroxide	94-36-0	< 2	5	mg/m ³	5	mg/m ³
Mineral Pigment	57455-37-5	< 5	10	mg/m ³	15	mg/m ³

The decomposition product Ethyl Acrylate is known to the State of California as a substance which causes cancer.

SECTION III - PHYSICAL DATA

BOILING POINT:	NA	SPECIFIC GRAVITY (H₂O=1):	1.185
VAPOR PRESSURE:	NA	PERCENT VOLATILE W/W%:	< 5
VAPOR DENSITY (AIR=1):	NA	EVAPORATION RATE (=1):	NA
SOLUBILITY IN WATER:	Insoluble.		
APPEARANCE AND ODOR:	Fine blue powder. 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:

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:

Ethyl Acrylate, a product of combustion, is listed as a suspect carcinogen by IARC, NTP and ACGIH. None of the other components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

TARGET ORGANS:

For Polymer: None Listed. For decomposition products: Methyl Methacrylate Monomer: Nose, Liver and kidneys, Ethyl Acrylate Monomer: None Available. For Calcium Carbonate: None Listed. For Benzoyl Peroxide: None Listed. For Mineral Pigment: None Listed.

SECTION V - HEALTH HAZARD DATA CONTINUED**THRESHOLD LIMIT VALUE (TLV):**

For Polymer: NE. For decomposition products, Methyl Methacrylate Monomer: 100 ppm, Ethyl Acrylate Monomer: None Available. For Calcium Carbonate: 10 mg/m³. For Benzoyl Peroxide: 5 mg/m³. For Mineral Pigment: 10 mg/m³.

PERMISSIBLE EXPOSURE LIMIT (PEL):

For polymer: NE. For decomposition products, Methyl Methacrylate Monomer: 100 ppm, Ethyl Acrylate Monomer: None Available. For Calcium Carbonate: 15 mg/m³. For Benzoyl Peroxide: 5 mg/m³. For Mineral Pigment: 15 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_{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.
Ethyl Acrylate: Inhalation LC_{Lo}, Guinea Pig: 1204 ppm/7H. Inhalation TC_{Lo}, human: 50 ppm. Inhalation LC_{Lo}, Mouse: 25 mg/m³/2H. Inhalation LC₅₀, Rat: 2180 ppm/4H. Inhalation LC_{Lo}, Rabbit: 1204 ppm/7H. Intraperitoneal LD₅₀, Mouse: 599 mg/kg. Intraperitoneal LD₅₀, Rat: 450 mg/kg. Oral LD₅₀, Mouse: 1779 mg/kg. Oral LD₅₀, Rat: 800 mg/kg. Oral LD₅₀, Rabbit: 400 mg/kg. Dermal LD_{Lo}, rat: 1800 mg/kg. Dermal LD₅₀, Rabbit: 1834 mg/kg. RTECS: Listed. TSCA: Listed.
For Calcium Carbonate: LD₅₀ Oral Rat: 6450 mg/kg. RTECS: Listed. TSCA: Listed.
For Benzoyl Peroxide: LD_{Lo} Intraperitoneal Mouse: 250 mg/kg. LD₅₀ Oral Rat: 7710 mg/kg. RTECS: Listed. TSCA: Listed.
For Mineral Pigment: LD₅₀ Oral Mouse: > 10,000 mg/kg. LD₅₀ Oral Rat: > 10,000 mg/kg. RTECS: Not Listed. TSCA: Listed.

SECTION V - HEALTH HAZARD DATA CONTINUED**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 Acrylate: Inhalation of vapor or mist is harmful and can cause severe irritation of nose, throat and lungs. It may cause permanent, irreversible eye damage. It can be absorbed through the skin and cause skin sensitization. It is corrosive to the skin. Prolonged or repeated exposure can cause the allergic skin reaction, kidney damage and liver damage.

For Calcium Carbonate: Inhalation of dust may irritate the nose, throat, and respiratory tract, cause sneezing and coughing. Dust may irritate the eyes. Prolonged or repeated skin contact with the dust may irritate the skin. May aggravate pre-existing eye, skin or respiratory disorders.

For Benzoyl Peroxide: Prolonged skin contact may cause skin irritation. May cause eye irritation or damage. Dust may cause irritation of the nose, throat, and lungs. May produce muscular weakness upon ingestion.

For Mineral Pigment: None expected, but inhalation of large quantities of dust may cause irritation of the respiratory tract. Ingestion of large quantities may liberate sulfur dioxide.

For Dialkyl Phthalate: Inhalation of vapors or mists may cause irritation the respiratory tract and nausea. Ingestion of excessive quantities may cause nausea, abdominal pain and diarrhea. May cause irritation, burning, tearing and redness of the eyes. Prolonged or repeated contact may cause redness and burning of the skin.

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:	Acrylate and Methacrylate monomers, and Oxides of Carbon.	
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 decomposition product, 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 Mineral Pigment: LC₅₀ Rainbow Trout: > 32,000 mg/l.

For Dialkyl Phthalate: Flathead minnow LC_{50-96hr}: 1-10 µl/L; Water Flea LC_{50-96hr}: 1-10 µl/L.

ECOLOGICAL TOXICITY:

For Benzoyl Peroxide: Ecological Toxicity is not known.

OXYGEN DEMAND:

For Dialkyl Phthalate: ThOD: 2.24 g/g; COD: 1.71 g/g; BOD: 0.34- 0.43 g/g.

PLANT EFFECTS:

For Dialkyl Phthalate: No adverse effects on germination or seedlings.

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

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Reviewed By: *Bernard O. Casler* Technical Review

Reviewed By: *Jonathan Adlan* President

Issue Date: 5/31/01

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