Factor II, Incorporated

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MATERIAL SAFETY DATA SHEET
J-600
CLEAR POLYMER
In Case of Emergency Contact 928-537-8387 Factor II, Inc.

Factor II Technology urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers and other users of the product of this information.

I. PRODUCT IDENTIFICATION

Trade Name/Product Code: J-600
PRODUCT NAME: Methacrylate Polymer
CHEMICAL NAME: Methacrylate Polymer
DOT/UN SHIPPING NAME: Synthetic Gum Resin Granular, Noibn, NMFC
item #46030, Schedule B 3906.90.600
FORMULA: Proprietary Formulation

FOR DECOMPOSITION PRODUCTS:
Methyl Methacrylate Monomer CAS #:80-62-6 60-100%

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	

III. PHYSICAL DATA

BOILING POINT: NA
VAPOR PRESSURE: NA
SOLUBILITY IN WATER: Insoluble
PERCENT VOLATILE W/W% NA
SPECIFIC GRAVITY (H2 0=1): 1.25
VAPOR DENSITY (AIR): NA
APPEARANCE AND ODOR: Fine white powder. Faint odor
EVAPORATION RATE (=1): NA

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 304ºC 580ºF
FLAMMABLE LIMIT, AIR VOL% LOWER: NA
UPPER: NA
AUTOIGNITION TEMPERATURE: Not Est.

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EXTINGUISHER METHOD: Water, carbon dioxide, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: J-600

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. Fire fighters should wear self-contained breathing apparatus.

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.

THRESHOLD LIMIT VALUE (TLV):

For Polymer: NE. For decomposition product, Methyl Methacrylate monomer: 100 ppm

PERMISSIBLE EXPOSURE LIMIT (PEL):

For polymer: NE. For decomposition product, Methyl Methacrylate monomer: 100 ppm

TOXICITY DATA:

For Polymer: None Listed. RTECS: Not listed. TSCA: Listed.
For decomposition product, Methyl Methacrylate Monomer: Ld_{50} Acute Oral Rat: 7990 mg/kg. LD_{50} Acute Dermal Rabbit: 35,500 mg/kg. LC_{50} Acute Inhalation Rat: >12,500 to 16,500 ppm for 0.5 hours. TC_{Lo} Inhalation Human: 125ppm. . TC_{Lo} Inhalation Human: 60mg/m^3 Human Patch Test: Approximate one-third of subjects developed mild redness at the site of application. 20% showed sensitivity when tested 10 days later.

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 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.

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
J-600
PERSONAL PROTECTIVE EQUIPMENT: Gloves and Safety Glasses or Splash Goggles

VI. REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Heating above 240ºC, 464ºF.
INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Methacrylate Monomers and Oxides of Carbon when burned.
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: N/A

VII. SPILL OR LEAK PROCEDURES

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.
ENVIORNMENTAL EFFECTS:
AQUATIC TOXICITY:
For Methacrylate Monomer: Estimate of 96 hours median Threshold limit 100-1000ppm. Flathead minnows and goldfish 420ppm. Bluegills 368 ppm.
WASTE DISPOSAL METHOD:
Incinerate material in accordance with Federal, State, and Local regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATIORY 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 splash goggles.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
High temperature processing equipment should be well ventilated.

IX. SPECIAL PRECAUTIONS

Store in cool dry place. Keep container closed to prevent water absorption and contamination.
Wash face and hands thoroughly with soap and water after use and before eating, drinking, smoking or applying cosmetics.

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATION (29CFR 1910.1200) AND THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34, CHAPTERS 301-323) ANY APPLICABLE STATE AND LOCAL REGUALTIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENET 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 THSES DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUSCH 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 AND MATERIAL IS

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