<table>
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<th>MATERIAL SAFETY DATA SHEET</th>
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<td>TECATOR™ 5031</td>
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<td>EMERGENCY TELEPHONE:</td>
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<td>Issue Date:</td>
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<td>TRADE NAME:</td>
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1. Composition / Information on Ingredients

- Chemical Name: Poly(trimellitic amideimide)
  - CAS Number: 61970-49-8
- Chemical Name: Graphite
  - CAS Number: 7440-44-0
- Chemical Name: Polytetrafluoroethylene
  - CAS Number: 9002-84-0

2. Hazards Identification

- Class Name of Hazardous Chemicals: N/A
- Physical and Chemical Hazards: N/A
- Adverse Human Health Effects: Do not use this material for implant articles
- Environmental Effects: N/A

3. First Aid Measures

- Skin Contact: After contact with molten polymer, immediately cool with cold water for a prolonged time. Remove affected clothing. Do not peel polymer from skin. Obtain medical attention.
- Eye Contact: Gently rinse the affected eyes with clean water and seek medical attention.
- Ingestion: Rinse mouth with water and attempt to induce vomiting. Seek medical attention, if necessary.

4. Fire Fighting Measures

- Specific Hazardous: Wear self contained breathing apparatus. Irritating and highly toxic gases may be generated by thermal decomposition or combustion in fire.
- Extinguishing Media: Use water spray, foam, dry chemical powder, or carbon dioxide.

5. Accidental Release Measures

- Shut off all sources of ignition; no flames or smoking in the area. Pellets on floor may be a slipping hazard. If pellets are released in environment, take adequate steps to prevent aquatic animals and birds from eating. Sweep up and place in proper disposal containers.
6. Handling and Storage

Handling: Avoid dust accumulation. Where dust is produces, take measures to avoid static electric discharge. Avoid overheating of material by improper handling. Provide adequate ventilation. Use assistant apparatus for plate heavier than 20mm or rod heavier than 150 mm.

Storage: Treat as an ordinary combustible. Store away from excessive heat and humidity. Do not stack too high to avoid injury caused by falling product.

7. Exposure Controls / Personal Protection

Engineering Measures: When processing, ventilation is recommended to eliminate generated gas and dust.

Personal Protection:
Respiratory: During handling, grinding, sanding, or sawing operations use a NIOSH/MSHA approved air purifying respirator with dust/mist cartridge or canister if airborne particulate concentrations are expected to exceed permissible exposure levels.
Eye Protection: Wear safety glasses with side-shields or chemical safety goggles.
Skin Protection: Wear suitable glove and protective clothing.

8. Chemical and Physical Properties

Physical Data
- Melting Point: None
- Odor: None
- Density: 1.46
- Form: Solid

9. Stability and Reactivity

Flashpoint: None
Auto-ignition Temperature: Above 500
Explosion Limits: None
Solubility: Insoluble in water
Oxidation: None under normal conditions; At room temperature: Not Applicable; Decomposition gas is generated above 500.

This product is considered a stable material under normal storage and handling conditions.

Decomposition products: Toxic fumes of the following components may be generated by thermal decomposition:
- PTFE: (1), tetrafluoroethylene: above 430
- (2) hexafluoropropylene: above 440
- (3) perfluoroisoethylene: above 475

10. Toxicological Information

With proper use and in accordance with regulations, there are no known health dangers.
Irritant Properties: Gas generated during drying or molding can be an eye and skin irritant.
Others: Gas generated from molten polymer contains harmful components (HF, etc). The fumes generated when polymer is burnt or being heated over 260 for a long time can cause a person to have polymer-fume fever.

11. Ecological Information

Biodegradability: N/A
Bioaccumulation: N/A
Fish toxicity: N/A
Other Ecotoxicity Information: Animals and birds may die from eating pellets
12. Disposal Considerations

Waste Disposal: Dispose in compliance with federal, state, and local regulation. Preferred options for disposal are (1) incineration with energy recovery, and (2) landfill. The high fuel value of this product makes option 1 very desirable, but incinerator must be capable of scrubbing out acidic combustion products.

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe this information to be correct but cannot guarantee its accuracy or completeness. Health and safety precaution in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in the data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.