SDS Number: 21 R H Bk
Revision Number: 5
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Section 1 Chemical, Product & Company Identification

Material Identification: **Polyamide 6/6; PA66, Glass Reinforced, Heat Stabilized, Black**

Tradenames/Synonyms: Domonyl™ 21xxRxxHx Series (xx = 2 digit code)

Company Identification: DOMO Engineering Plastics US, LLC
4917 Golden Parkway, Suite 300
Buford, GA 30518
(770) 237-2311

Emergency Phone No.: **(770) 237-2311**

Section 2 Hazards Identification

Emergency Overview: Product in molten form can cause serious burns
Product dust may cause eye, skin and respiratory tract irritation
Spilled pellets may present a slipping hazard.
Product ingestion may cause gastric disturbance.

Potential Health Effects

Inhalation: Product dust can be irritating to the respiratory tract. Over-heating during processing may generate hazardous or irritating vapors.

Skin: Product particles may cause irritation. Molten product can cause serious burns.

Eyes: Product particles may cause irritation. Molten product can cause serious burns.

Ingestion: Minimal issues expected from product itself. Irregular product shape from reground material could cause gastric distress.

Carbon Black Immediate effects of overexposure to Carbon Black by inhalation may include irritation of the nose, throat, and lungs with cough, difficulty breathing or shortness of breath.

If particles from carbon black contact the eye, mechanical irritation with tearing, pain or blurred vision may result.
Significant skin permeation, and systemic toxicity, after contact with carbon black appears unlikely. There are no reports human sensitization.
Epidemiologic studies demonstrate no significant risk of human cancer from exposure to carbon black. While some reports cite an increased incidence of pulmonary abnormalities, such as, decreased pulmonary functions and radiolgical changes among carbon black workers, other reports show no correlation between exposure and effects on pulmonary function or disease.
Increased susceptibility to the effects of carbon black may be observed in persons with pre-existing disease of the lungs.

Glass Fiber The mechanical action of the fibers from glass fiber may cause skin irritation or rash.
Eye contact with glass fiber particles may cause mechanical eye irritation with discomfort, tearing, blurring of vision.
Inhalation of glass fiber particles may cause irritation of the upper respiratory passages, with coughing and discomfort.

Results from epidemiology studies suggest no causal relationship between glass fiber exposure and cancer. One epidemiology study does indicate a slight increase in lung cancer deaths. The evidence that fiber glass is related to these increased lung cancer deaths is considered weak.
Individuals with pre-existing diseases of the lung may have increased susceptibility to the toxicity of the excessive exposures.

Section 3 Composition / Information on Ingredients

CAS Number	Ingredients:	
32131-17-2	Polyamide 6/6	> 45%
1333-86-4	Carbon Black	< 5%
65997-17-3	Fiber Glass	< 40%
	Additives & Colorants	< 10%

Remarks: This product may contain proprietary ingredients.
These materials are not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

These are polymeric-based materials. Any hazardous ingredients are likely to be encased by the base polymer, reducing the likelyhood of any exposure under normal processing and handling conditions. Additives in this product do not present a respiration hazard unless the product is ground to a powder of respirable size and the dust is inhaled. Good industrial hygiene practice, as with all dust hazards, should include precautions to prevent inhalation of respirable particles.
These materials are not known to be classified as hazardous by OSHA Regulations.

Section 4 First Aid Measures

Inhalation: Move effected individual to fresh air and maintain calm environment. Assist with breathing and get medical attention is symptoms occur.

Skin: Burns caused by exposure to molten polymer will be serious and will require immediate medical attention. Cool skin rapidly with cold water. Do not peel solidified product from the skin.

Eyes: Immediately flush with plenty of clean water. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting. Seek medical advice.

Note to Physician: This product is essentially inert and non-toxic in normal form. If product has been over-heated or burned, by-product gasses may be released including hydrogen sulfide. Patients exposed to such off-gasses by be effected, particularly if they have chronic diseases of the respiratory system. While it is unlikely that enough hydrogen sulfide can be formed to cause poisoning, such possibility should be considered.

Section 5 Fire Fighting Measures

Auto-ignition Temp.: >400ºC per ASTM D-1929

Extinguishing Media: Water, foam, dry extinguishing powder.

Hazardous Products of Combustion: Carbon monoxide, hydrogen cyanide, can be emitted at > 300ºC. Under special fire conditions traces of other toxic substances are possible. Formation of further decomposition and oxidation products depends upon the fire conditions.

Protective Equipment: Self-contained breathing apparatus and full protective clothing

Section 6 Accidental Release Measures

Precautions: Remove all sources of ignition. Avoid dust formation. Clean-up quickly to prevent slipping hazard.

Clean-up: Use suitable mechanical or vacuum equipment. Dispose of according to local regulations.

Section 7 Handling & Storage

Handling: Do not handle hot or molten material without appropriate protective equipment. Maintain good housekeeping in work areas. Take precautions against static discharge. Do not exceed recommended process temperatures to minimize release of decomposition by-products.

Storage: Keep containers closed and avoid accumulation for dust. Store in a cool, dry place.

Section 8 Exposure Controls / Personal Protection

Engineering Controls: Use local ventilation to control dust and fumes generated during processing

Eye / Face Protection: Wear safety glasses at all times. If working near molten material, wear splash goggles or face shield. Full mask respirators can provide protection against irritants.

Respirators: For airborne dust, use NIOSH / MSHA approved air purifying respirator with an organic vapor cartridge and a dust / mist filter. Use a positive pressure air supplied respirator when excessive fumes from thermal decomposition or unknown circumstances are present.

Protective Clothing: When exposed to hot / molten material, wear heat resistant clothing and footwear.

Section 9 Physical & Chemical Properties

Form as Supplied: Pellets
Odor: Odorless
Color: Black
Melting Temperature: 260^{o}C
Density 1.22-1.73 g/cc
Solubility in Water Insoluble

Section 10 Stability & Reactivity

Reactivity: Stable under normal conditions.

Conditions to Avoid: Direct exposure to flame; Prolonged heat at or above the recommended processing temperature range.

Incompatible Materials: n/a

Hazardous Combustion or Decomposition Products: Carbon monoxide, hydrogen cyanide

Section 11 Toxicological Information

Chronic Toxicity: Product specific data is unknown. The product is believed to be harmless to human health in normal handling.

Other Information: No adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Section 12 Ecological Information

Ecotoxicity: This material is believed to be harmless to the environment unless spilled and ingested by wildlife. The specific effects from ingestion by birds and other wildlife is unknown.

Biodegradability: This materials is considered to be non-biodegradable.

Section 13 Disposal Considerations

Disposal Considerations: Recycling is possible and encouraged. Otherwise dispose in accordance with state and local regulations. This information applies to the material as manufactured; processing, use or contamination may make this information inappropriate, inaccurate or incomplete.

Contaminated Packaging: Packaging should be completely emptied to prevent spillage of pellets into the environment.

Section 14 Transportation Information

US DOT: Not regulated

ICAO / IATA: Not regulated

Section 15 Regulatory Information

U.S. Federal: This product complies with the U.S. Toxic Substances Control Act (TSCA)

Canadian: This product is not a WHMIS controlled product and does not knowingly contain substances required to be disclosed according to the WHMIS Ingredient Disclosure List.

Section 16 Other Information

Disclaimer - Medical Use: Do not use in medical applications involving temporary or permanent implantation in the human body.

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This information is subject to revision as additional knowledge and experience is gained. Refer to the appropriate technical bulletins for specific product and processing guidance.