

Multi-Material Compatibility

Automation

Same-material Automated Changeover	With Material Pod
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Supports

Same-material support	Yes
Compatible Soluble Materials	Dissolve LT (Water-soluble)
Compatible Breakaway Materials	None

Note: Matrix has a high tendency to absorb moisture so if it is used with soluble support and dissolved in water, it is recommended to dry the part for at least 8 hours at 100C afterwards to maintain desired properties



Mosaic Matrix

Safety Data Sheet



Section 1: Identification

Product Identification:

Product Name: Mosaic Matrix
Chemical Name: Carbon Fibre Filled Polyamide (PA)
Recommended Use: Additive manufacturing

Supplier Information:

Mosaic Manufacturing
403-111 Peter Street, Toronto, Ontario, Canada M5V 2H1
Phone 647-570-0375
Email: info@mosaicmfg.com

Section 2: Hazard(s) Identification

Regulation (EC) NO 1272/2008: Not classified as a dangerous product

Physical Hazards: None

OSHA Regulatory Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Section 3: Composition/Information on Ingredients

Components	CAS No.	Concentration Range (%)
Polyamide Resin	25038-54-4	>80
Carbon Fiber	7440-44-0	<20

Section 4: First-Aid Measures

Eyes: Flush with water. Consult a physician if symptoms persist.

Skin Contact: Wash with soap and water. For thermal burns from molten polymer, immediately flush with cold water. Do not attempt to remove cooled polymer from the skin. Obtain medical attention.

Inhalation: Leave exposed area and seek fresh air. If irritation persists seek medical attention.

Ingestion: Not likely due to the nature of the product. If ingested, drink plenty of water. Do not induce vomiting. Consult a physician if symptoms persist.

Section 5: Fire-Fighting Measures

Extinguishing Media: Water spray, dry powder, and foam. Carbon dioxide (CO₂)

Safety Precautions for Persons exposed to products of combustion should wear NIOSH approved self contained breathing apparatus and full protective equipment.

Section 6: Accidental Release Measures

Spill or release: Clean up by vacuuming or sweeping to prevent falls. If molten, allow material to cool and place into an appropriate container for disposal.

Section 7: Handling and Storage

Precautions to be taken in handling and storage: Store in a dry, sprinkler equipped warehouse. Product as shipped is not a combustible dust. Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion, avoid dust accumulation.

Waste Disposal: Dispose in accordance with applicable federal, state and local regulations.

Section 8: Exposure Controls/Personal Protection

Exposure Limits: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Respiratory Protection: A NIOSH approved respirator is recommended for protection against processing polymeric fumes, or from dust generated from grinding, sanding, or sawing operations.

Ventilation: Local exhaust is preferred.

Protection Gloves: Canvas or cotton gloves are recommended.

Eye Protection: Safety glasses with side shields are recommended. Other: No protective equipment is needed under normal use conditions.

Section 9: Physical and Chemical Properties

State:	Solid
Form:	Filament
Color:	Black
Odor:	None
Freezing Point:	N/A
Solubility in Water:	Insoluble
Specific Gravity:	>1
% Volatile:	N/A
Boiling Range:	N/A
Vapor Pressure (MM HG):	Negligible

Melting Point: This product does not possess a specific melting point. It softens gradually over a wide temperature range.

Note: Those physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Section 10: Stability and Reactivity

Polymerization conditions to avoid: None

Chemical Stability: Stable under normal conditions

Conditions to avoid: Incompatible materials, including strong oxidizing agents

Hazardous decomposition byproducts: Thermal decomposition can yield intense heat, dense smoke, phenols, hydrogen cyanide, carbon dioxide, and carbon monoxide.

Section 11: Toxicological Information

No specific toxicological information is available.

Section 12: Ecological Information

No specific ecological information is available.

Section 13: Disposal Considerations

Waste Disposal: Waste or unused product may be discarded in accordance with state, federal, and local regulations.

Section 14: Transport Information

Land Transport (DOT):	Non-Regulated
Sea Transport (IMDG):	Non-Regulated
Air Transport (ICAO/IATA):	Non-Regulated

Section 15: Regulatory Information

TSCA:	Complies
EINECS/ELINCS:	N/A
DSL/NDSL:	Complies
PICCS:	N/A
ENCS:	Complies
IECSC:	Complies
AICS:	Complies
KECL:	Complies

Section 16: Other Information

Prepared by: Mosaic Manufacturing

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