SAFETY DATA SHEET - Build Series PLA

Section 1: Identification of the substance and Preparation

1.1: Product Identifiers

Product name: MatterHackers Build PLA

1.2: Relevant identified uses of the substance or mixture and uses advised against

Identified uses: 3D printing filament. Material for 3D printing FDM applications.

1.3: Details of the supplier of the Safety Data Sheet

Company identification:
MatterHackers inc.
27156 Burbank
Foothill Ranch, CA
92610
Email: support@matterhackers.com

Section 2: Hazard(s) identification

2.3: Other Hazards: None noted

Section 3: Composition/Information on ingredients

Description: This product contains a proprietary blend of components encapsulated within a polymer matrix. These components are not regarded as hazardous under 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200. The specific chemical identity of this product is withheld because it is a trade secret.

Dangerous Components: N/A

Additional information: N/A
Section 4: First aid measures

4.1: Description of first aid measures

General Advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Wash skin with plenty of water. With prolonged skin irritation, seek first aid or medical attention. After contact with the molten product, cool rapidly with cool water, do not pull solidified product from the skin and seek medical treatment.

Eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician.

Ingestion: If swallowed, seek medical attention.

4.2: Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3: indication of medical attention and special treatment needed

No further relevant information available

Section 5: Firefighting measures

5.1: Extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

5.2: Special hazards arising from the substance or mixture
Can be released in case of fire:
Carbon Monoxide (CO)
Carbon Dioxide (CO2)
Nitrogen Oxides (NOx)
Hydrogen Cyanide (HCN)

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**Section 6: Accidental release measures**

6.1: Personal precautions, protective equipment and emergency procedures

Use self-contained breathing apparatus and protective fire fighting clothes

6.2: Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

6.3: Methods and materials for containment and cleaning up

Sweep up. Collect in suitable and properly labeled containers.

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**Section 7: Handling and storage**

7.1: Precautions for safe handling

General Handling: No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. Avoid breathing process fumes. Workers should be protected from the possibility of contact with molten resin. Do not get molten material in eyes, on skin or clothing. Protect against electrostatic charges

7.2: Conditions for safe storage, including any incompatibilities storage

Store in accordance with good manufacturing practices, in a cool place and away from direct sunlight. Protect from humidity and keep away from water.
Section 8: Exposure controls/personal protection

8.1: Control parameters

None established.

8.2: Exposure Controls:

Personal protection

Eye/Face Protection: Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator.

Skin Protection: No precautions other than clean body-covering clothing should be needed.

Hand protection: Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves with insulation for thermal protection (EN 407), when needed. Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

Respiratory Protection: Not necessary if room is well ventilated.

Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

Engineering Controls

Ventilation: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be
sufficient for most operations.

Section 9: Physical and chemical properties

9.1: Information on basic physical and chemical properties

Appearance

Physical state: solid when at ambient temperature
Color: Translucent/Natural/Colored
Odor: Nearly odorless
pH: N/A
Melting point: 190°C
Boiling point: N/A
Flammability: N/A
Specific Gravity: 1.24g/cc
Solubility in water: Insoluble
Autoignition Temp: N/A
Decomposition Temp: N/A
Oxidizing properties: N/A
Explosive properties: Product is not explosive

Section 10: Stability and reactivity

10.1: Reactivity
React with strong acids and oxidizing agents

10.2: Chemical stability
Stable

10.3: Possibility of hazardous reactions
This product is not capable of dust explosion in the form supplied. Enrichment with fine dust causes risk of dust explosion.

10.4: Conditions to Avoid
No further relevant information available.

10.5: Incompatible Materials
Strong acids, strong oxidizing agents

10.6: Hazardous decomposition products
None known.

Section 11: Toxicological information

11.1: Information on toxicological effects
Ingestion: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed.

Aspiration hazard: Based on physical properties, not likely to be an aspiration hazard.

Dermal: No adverse effects anticipated by skin absorption.

Inhalation: No adverse effects are anticipated from single exposure to dust.

Eye damage/eye irritation: Solid or dust may cause irritation or corneal injury due to mechanical action. Elevated temperatures may generate vapor levels sufficient to cause eye irritation.

Skin corrosion/irritation: Prolonged contact is essentially non irritating to skin. Mechanical injury only. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.
Section 12: Ecological information

12.1: Toxicity
Not expected to be acutely toxic.

12.2: Persistence and degradability
This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

12.3: Bioaccumulative potential
No bioconcentration is expected because of the relatively high molecular weight.

12.4: Mobility in soil
In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

Section 13: Disposal considerations

13.1: Waste treatment methods
For uncontaminated material disposal options include mechanical and chemical recycling or energy recovery. In some countries landfill is also allowed. For contaminated material the options remain the same, although additional evaluation is required. For all countries the disposal methods must be in compliance with national and provincial laws and any municipal or local by-laws. All disposal methods must be in compliance with the EU framework Directive 2008/98/EC and their subsequent adaptations, as implemented in National Laws and Regulations, as well as EU Directives dealing with priority waste streams.

Section 14: Transport information
Not Classified – not considered hazardous based on available data
Section 15: Regulatory information

15.1: Safety, health and environmental regulations specific for the substance or mixture

Section 16: Other information

The information herein is based on our present knowledge and given in good faith, but no warranty, express or implied, is made.

Contact support@matterhackers.com for more information.