	Section 1:
Identification of the substance and Preparation	
1.1: Product Identifiers	
Product name: MatterHackers MH Build Series TPU	
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.	
20321 Valencia Circle	
Lake Forest, CA	
92630	
Email: support@matterhackers.com	
	Section 2:
Composition/Information on ingredients	
Chemical Character: Epsilon-caprolactone(CAS NO.: 502-44-3)	
Viscosity-average molecular weight: 60000	
	Section 3:
Hazard(s) identification	
Hazard designation: XI	
Hazard designation: IV	

Information pertaining to particular dangers for man and environment:

Long-term exposure can make skin dry, chapped, induced dermatitis. There are less harmful to the environment, air, water, environment and water pollution. Deflagration hazard: It can burn. 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: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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: CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
5.2: Special hazards arising from the substance or mixture
Can be released in case of fire:
Carbon Monoxide (CO)
Carbon Dioxide (CO2)
Section 6:
Accidental release measures
6.1: Personal precautions, protective equipment and emergency procedures: None Needed.
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: Vacuum or sweep up and place in a standard disposal container. Avoid the use of air jets.
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:
Exposure Guidelines: Fiber dust should be considered a nuisance dust, i.e. particulates (not otherwise classified):ACGIH Threshold Limit Value:10mg/m3 total dust; 3-mg/m3 respirable dust.
Engineering Controls: Local exhaust recommended to reduce exposure to fiber dust.
Specific Personal Protective Equipment:
Respiratory: For operations where inhalation exposure can occur, a NIOSH approved dust mask/respirator is recommended.
Eye: For operation where eye contact can occur, eye protection such as goggles or safety glasses is recommended.
Section 9:
Physical and chemical properties
9.1: Information on basic physical and chemical properties
General Information:
Form: Solid
Smell: Not determined.
Change in condition:
Melting point: 176°C
Ignition temperature: Not determined
Decomposition Temperature: 252°C
Danger of explosion: Not determined
Vapor pressure: Not determined
Density at 25 °C: 1.21g/cm3

Solubility (Water): Not determined

Section 10:
Stability and reactivity
10.1: Reactivity
Reacts 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.
Toxicological information
Acute toxicity:
LD/LC50 values that are relevant for classification:
Oral LD50 4290mg/kg(rat)
Dermal LD50 5990uL/kg(rabibit)

Primary irritant effect: Irritant for skin and mucous membranes.	
On skin:Irritant effect.	
On eye: No sensitizing effect known.	
Additional information:	
To the best of our knowledge the acute and chronic toxicity of this substance is not	
fully known. No classification date on carcinogenic properties of this material is	
available from the EPA IAPV NTP OSHA or ACGIH.	
	Section 12:
Ecological information Water hazard class 1(self assement): slightly hazardous for water.	
Do not allow undiluted product or large quantities of it to reach ground water, water	
bodies or sewage system.	
Do not allow material to be released to the environment without proper governmental	
permits.	Section 13:
Disposal considerations	Section 13.
Product: Dispose of in a manner consistent with federal, state, and local regulations. Hand over	
to disposers of hazardous waste. Must be specially treated under adherence to official	
regulations.	
Uncleaned package: Disposal must be made according to official regulations.	Castian 14.
Transport information	- Section 14:
No dangerous according to ADR/RID GGVS/GGVE IMDG/RID ICAO-TI.	

Section 15:
Regulatory information
International:
Canada :DSL/NDSL: Included on the Canadian Domestic Substance List.
Canada: WHMIS: Not a controlled product.
Europe: Not classified as dangerous according to Directive 1999/45/EC.
UN: Does not appear on the Dangerous Goods List.
Federal(U.S.):
EPA: Not regulated.
OSHA: Not hazardous under the criteria of Occupational Safety and Health
Standard 29 CFR 1910 Subpart Z.
State:
CA: Proposition 65: Does not contain chemicals known to the State of California to
cause cancer or reproductive toxicity.
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

 ${\tt Contact\ support@matterhackers.com\ for\ more\ information..}$