SAFETY DATA SHEET - MatterHackers PRO Series PVA

Section 1: Identification

1.1 Product Identifiers
Product Name: **PRO Series PVA**

1.2 Relevant Identified Uses
3D printing filament. Material for FDM/FFF additive manufacturing.

1.3 Supplier Information
MatterHackers, Inc.
20321 Valencia Circle
Lake Forest, CA 92630
Email: support@matterhackers.com
Phone: +1 (949) 613-5838

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture

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

2.2 Label elements

No hazard label required.

2.3 Other hazards

None known.

Section 3: Composition / Information on Ingredients

3.1 Substance

Polyvinyl alcohol CAS No. 25213-24-5 Concentration: >95%

Section 4: First Aid Measures

Eye contact:

Flush with water. Do not rub eyes. Consult physician if symptoms persist.

Skin contact:

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

Inhalation:

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

Ingestion:

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

4.2 Most important symptoms/effects

No specific information is available.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting Measures

5.1 Extinguishing media

Water spray, dry powder, and foam. Carbon dioxide (CO■). May form combustible dust-air mixture if dispersed.

Apply extinguishing media carefully to avoid generating dust.

5.2 Special hazards arising from the substance or mixture

Combustion products may include carbon dioxide and carbon monoxide.

5.3 Advice for firefighters

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

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generating dust. Use appropriate personal protective equipment.

6.2 Environmental precautions

Prevent release to the environment when possible.

6.3 Methods and materials for containment and cleaning up

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

7.1 Precautions for safe handling

Mechanical handling can form dust. To reduce the risk for dust explosion do not permit dust to accumulate.

Avoid breathing dust and polymer fumes generated during processing.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, sprinkler-equipped warehouse. Keep container closed when not in use.

Section 8: Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits (methanol impurity) CAS 67-56-1:

333 mg/m³ (250 ppm) STEL/TWA (UK: EH40)

200 ppm TWA (EU: 91/322/EEC, 2006/15/EC, 2009/161/EU)

8.2 Exposure controls

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.

Skin protection: Nitrile rubber gloves are recommended.

Eye protection: Safety glasses with side shields are recommended.

Other: No additional protective equipment is needed under normal use conditions.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

- Form: Solid
- Appearance: Natural/Translucent
- Odor: N/A
- Freezing point: N/A
- Solubility in water: Insoluble

- Specific gravity: >1
- % Volatile: N/A
- Boiling range: N/A
- Vapor pressure: Negligible
- Melting point: This product does not possess a specific melting point. It softens gradually over a wide
- temperature range.
- Note: These 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

10.1 Polymerization / reactivity

Polymerization conditions to avoid: None.

10.2 Chemical stability

Stable under normal conditions.

10.3 Conditions and substances to avoid

Incompatible materials, including strong oxidizing agents.

10.4 Hazardous decomposition products

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

This product is not expected to be biodegradable.

This product is not expected to be bioaccumulative.

Not a PBT or vPvB substance or mixture.

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 for: MatterHackers, Inc.
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