



PUSH
PLASTIC

SAFETY DATA SHEET

EFFECTIVE DATE: 01/01/2022

Revision Number v1

1. Product and Supplier Identification

Product Name: Push Plastic PCTG

Chemical Name: PCTG (Poly Cyclohexylenedimethylene Terephthalate glycol-modified)

Recommended use: Additive Manufacturing

Supplier Information:

Push Plastic
1206 ESI Dr
Springdale, AR 72764 USA
Emergency Phone: (479)725-0842
Email: Sales@pushplastic.com

2. Composition of Ingredients

This product contains a proprietary blend of components encapsulated within a polymer matrix. This product is not regarded as hazardous under 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200.

3. Hazards

Classification of the product: No need for classification according to GHS criteria for this product.

Label elements: This product does not require a hazard warning label in accordance with GHS criteria.

4. First Aid Measures

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

Skin Contact: Cool skin rapidly with cold water after contact with hot polymer. Wash off immediately with soap and water. Consult a physician.

Eye Contact: Immediately flush with water for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion: No hazards which require special first aid measures.

Precautions: Processing fumes inhalation may be irritating to the respiratory tract. If symptoms are experienced remove victim from the source of contamination or move victim to fresh air and obtain medical advice.

5. FIRE 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 selfcontained breathing apparatus and full protective equipment.

Hazards from Combustion Products: Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments, nitrogen oxides.

Specific Hazards: Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors.

6. Accidental Release Measures

Clean up: Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.

Environmental Precautions: Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

7. Handling and Storage

Precautions to be taken in handling and storage: Store in a dry, cool, sprinkler equipped warehouse. Provide for appropriate exhaust ventilation and dust collection at machinery

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

8. Exposure Controls and Personal Protection

No Exposure Limits unless noted below

Engineering Measures to Reduce Exposure: Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.

Hand Protection: Protective gloves are recommended

Eye Protection: Safety glasses with side-shields or chemical goggles are recommended

Respiratory Protection: When using this product at elevated temperatures, implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid gases and particulate matter) if processing fumes are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.

9. Chemical and Physical Data

Form: Solid

Appearance: Natural

Odor: Slight

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.

10. Stability and Reactivity

Stability: Stable at normal conditions. Hazardous polymerization does not occur.

Conditions to Avoid: To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Do not exceed melt temperature recommendations in product literature. In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat, shapes or thin strands to allow for rapid cooling. Quench in water. Do not allow product to remain in extruder at elevated temperatures for extended periods of time: purge with a general purpose filament

Hazardous Decomposition Products: Processing fumes evolved at recommended processing conditions may include trace levels of hydrocarbon fragments, phenols, alkylphenols, diarylcarbonates, other substituted hydrocarbons, hydrogen cyanide (hydrocyanic acid).

11. Toxicological Information

No specific toxicological information is available.

12. Ecological Information

No specific ecological information is available. Do not flush into surface water or sanitary sewer system.

13. Disposal

Waste or unused product may be discarded in accordance with state, federal, and local regulations. Recycling is encouraged.

14. Transportation Information

Transport Classification: Not regulated as hazardous for shipment

15. Regulatory Information

U.S. Toxic Substances Control Act (TSCA): All component(s) comprising this product are either exempt or listed on the TSCA inventory.

SARA Title III, Section 313: This product does not contain any components that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. Other Information

Product safety data sheet for 1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol prepared in accordance with Annex II of the REACH Regulation EC 1907/2006, Regulation (EC) 1272/2008. Version: 1.0/EN Revision date: 21 February 2011 This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.

Prepared by: Management

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End of Material Safety Data Sheet