



MATERIAL SAFETY DATA SHEET

PROTO-PASTA CONDUCTIVE PLA

PRINT DATE: 1/15/2015

DOC VERSION: 1

REV DATE:

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Proto-pasta Conductive PLA
SYNONYMS: Proto-pasta CCPLA
PRODUCT CODES:

MANUFACTURER: Proto Plant
ADDRESS: 5601 East 18Th Street #102
Vancouver, WA 98661

EMERGENCY PHONE: 503-877-5268
OTHER CALLS: 503-877-5268
HOME PAGE: www.protoplant.com / www.proto-pasta.com

CONTACTS: Dustin Cram – Chief Engineer dustin@protoplant.com
Sara Shepherd – MSDS Coordinator sara@protoplant.com

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NO.	% WT	SARA 313 REPORTABLE
Poly lactide Resin	9051-89-2		None
Carbon Black	1333-86-4		None
Black Conductive Compound	1333-86-4		None

SECTION 2 NOTES: All components of this product are either listed on or exempt from listing on the TSCA Inventory. All ingredients in quantities > 1.0% (0.1% for carcinogens) that are potentially hazardous per OSHA definitions.

SECTION 3: HAZARDS IDENTIFICATION

COMMENTS: Hazard identification shown in Section 3 is based upon general information as to normal uses and conditions. Where special or unusual use or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

CARCINOGENITY: Carbon black has been evaluated by IARC as a possible Carcinogenic to Human (Group 2B). However, the carbon black contained in this product is completely encapsulated in thermoplastics and as such, should not present a health hazard. Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or Occupational Safety & Health (OSHA).

POTENTIAL HEALTH EFFECTS

EYES: Solid/dust may cause irritation due to mechanical action. Processing fumes may cause irritation.

SKIN: Excessive handling may result in slight skin irritation caused by fiber abrasion.
Contact with molten material may cause thermal burns.
Processing fumes may cause irritation.

INGESTION: Not a probable route of exposure. Obtain immediate medical attention.

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INHALATION: Dust and fume are irritating to respiratory system. May cause sensitization by inhalation. Use in a well ventilated area or with an approved respirator if exposed to dust.

CHRONIC HEALTH HAZARDS: None known for this compound.

SECTION 3 NOTES: Low hazard for usual industrial or commercial handling.

SECTION 4: FIRST AID MEASURES

EYES: Flush with water. Consult physician if symptoms persist.

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

INGESTION: Obtain immediate medical attention. For a poison emergency in the U.S. call 1-800-222-1222.

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

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY CLASS: 1 **FLASH POINT:** None **LEL:** None **UEL:** None

EXTINGUISHING MEDIA:

Foam. Water. Carbon Dioxide (CO₂). Dry Chemical. Alcohol resistant foams are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.

SPECIAL FIREFIGHTING PROCEDURES:

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

UNUSUAL FIRE & EXPLOSION HAZARDS:

This compound has no unusual fire or explosion hazards.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Avoid dust formation. Avoid contact with skin and eyes. Sweep up to prevent slipping hazard.

ENVIRONMENTAL PRECAUTIONS:

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.



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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

Store in a cool, dry place. Product as shipped is not a combustible dust. Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate.

OTHER PRECAUTIONS:

Proper purging and shut down procedures should be followed to avoid overheating of this compound. Product as shipped is not a combustible dust.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Ensure adequate ventilation on workstation. Avoid dust build up.

VENTILATION: Local exhaust is preferred. If ventilation is inadequate, use certified respirator that will protect against toxic dust.

RESPIRATORY PROTECTION: NIOSH approved respirator is recommended for protection against processing fumes, or from dust generated from grinding, sanding, or sawing operations.

EYE PROTECTION: Safety glasses with side shields are recommended.

SKIN PROTECTION: Impervious clothing. For prolonged handling, canvas or cotton gloves are recommended.

WORK HYGIENIC PRACTICES: Wash hands and dry hands thoroughly before and after handling product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid, glossy black, filament strand

ODOR: No odor.

PHYSICAL STATE: Solid

VOLATILES: volume %:N/AP weight %: N/AP

PH: Not applicable

DECOMPOSITION TEMPERATURE: 482F (250C)

MELTING POINT/RANGE: Not determined

WATER SOLUBILITY: Insoluble

SOLUBILITY IN OTHER SOLVENTS: None known



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SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

X

STABILITY: Stable under recommended storage conditions

CONDITIONS TO AVOID: Temperatures above 446F (230 °C).

MATERIALS TO AVOID: Oxidizing agents. Strong bases.

Hazardous decomposition products: Carbon Dioxide, Carbon Monoxide, Monomer fragments.

Polymerization: Not applicable

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: On product: No data available

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SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Ecological data not available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. For recycling, contact local waste disposal centers.

SECTION 14: TRANSPORT INFORMATION

SECTION 14 NOTES: Not regulated under the US Department of Transportation.

SECTION 15: REGULATORY INFORMATION

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right To Know Act of 1986 and of 40 CFR 372: NONE

SECTION 16: OTHER INFORMATION

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