



# Safety Data Sheet

Issued: May 1, 2015

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## Airwolf 3D PLA Premium 3D Printer Filament

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### SECTION 1, IDENTIFICATION

<b>Product Part Number:</b>	F30603, F38806, F41302, F63107, F72208, F72213, F80815, F89501, F95604
<b>Manufacturer:</b>	Wolf & Associates, Inc. DBA Airwolf 3D
<b>Address:</b>	11208 Young River Avenue, Fountain Valley, CA 92708
<b>Phone Number:</b>	+1 949-478-2933
<b>Recommended Use:</b>	3D printing
<b>Restrictions on Use:</b>	Intended for use with 3D printers.

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### SECTION 2, HAZARD IDENTIFICATION

#### GHS Classification:

**Physical Hazards:** Classification not applicable

**Health Hazards:** Classification not applicable

**Environmental Hazards:** Classification not applicable

#### GHS Label Elements:

**Pictogram or Symbol:** Not applicable.

**Signal Word:** Not Applicable

**Hazard Statement:** No relevant information.

#### Precautionary Statement:

**Safety Measures:** Do not breathe dust/fume/gas/mist.

**Response:** Get medical attention/advice if you feel unwell.

**Storage:** Keep away from fire. Store indoors at ambient temperature.

**Disposal:** Do not dump into sewers, on the ground or into any body of water. Burn in an adequate incinerator or bury in landfill in accordance with applicable local, state, and federal regulations.

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### SECTION 3, COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name or generic name: Polylactide

Contents:

No.	Content	CAS Number	Chemical Formula	Content (%)
1	Polylactide Resin (PLA)	9051-89-2	$H[(-OCH(CH_3))CO-]_nOH$	90-99 %

Health hazards elements: White filament is contained titanium oxide (CAS# 13463-67-7) less than 1%, which may be carcinogenicity. (IARC: Group2B)

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### SECTION 4, FIRST-AID MEASURES

- Ingestion:** If swallowed by accident, keep at rest and get medical attention immediately.
- Inhalation:** If you feel unwell by inhalation of vapor or gas, move to fresh air and keep at rest in a position comfortable for breathing. Contact a physician if you feel unwell.
- Skin:** In case of contact with melted material, fully cool down by pouring plenty of water over the clothing. Then take off clothing, cover with clean gauze and get medical attention immediately.  
Get medical attention if appearance changes, irritating pain occurs or feeling unwell.
- Eyes:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.
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### SECTION 5, FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media** All types of fire extinguishing media, including water.
- Special Fire-Fighting Procedure:** Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

## SECTION 6, ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up:	Treat the contaminated materials and wastes in accordance with the relevant laws and regulations. Sweep up and shovel into suitable containers for disposal.
Personal Precautions:	Wear appropriate protective equipment (gloves, protective mask, apron, goggles, etc.). Collect the residual filament on the floor frequently because strings and small pieces can make floor slippery.
Environmental Precautions:	Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.

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## SECTION 7, HANDLING AND STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed.
<b>Storage:</b>	Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition.

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## SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Personal Protection Eye:</b>	Wear safety glasses or chemical goggles for general purpose.
<b>Respiratory:</b>	Wear masks as needed
<b>Gloves:</b>	Necessary for handling melted material.
<b>Skin and Body Protection</b>	Wear clothing to avoid direct exposure of skin to molten resin when handling.

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## SECTION 9, PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	String/strand
<b>Color:</b>	Black, White, Blue, Red, Green, Orange, Yellow, Silver
<b>Odor:</b>	None or slight
<b>Autoignition Temperature:</b>	388°C (Estimation)
<b>Melting Temperature:</b>	160 to 165°C
<b>Solubility:</b>	Insoluble in water
<b>Specific Gravity:</b>	1.20 to 1.28 g/cm <sup>3</sup>

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## SECTION 10, STABILITY AND REACTIVITY

<b>Stability:</b>	Largely stable under normal storing/handling conditions. There is a biodegradability or a bit unstable against heat, light & humidity then gradually colored and decomposed. There is a hydrolysis.
<b>Self-Reactivity:</b>	None
<b>Flammability:</b>	None

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## SECTION 11, TOXICOLOGICAL INFORMATION

**Germ cell mutagenicity:** AMES Test Negative

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## SECTION 12, ECOLOGICAL INFORMATION

<b>Ecotoxicity Effects:</b>	EC50/72h/algae > 1100 mg/L
<b>Persistence and Decomposition:</b>	There are a biodegradability and a hydrolysis, so decomposed under the environment.

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## SECTION 13, DISPOSAL CONSIDERATIONS

Do not dump into sewers, on the ground or into any body of water. Burn in an adequate incinerator or bury in landfill in accordance with applicable local, state, and federal regulations.

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## SECTION 14, TRANSPORT INFORMATION

Not classified as a dangerous good under transport regulations. Follow all regulations in your country.

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**SECTION 15, REGULATORY INFORMATION**

Follow all regulations in applicable country, state, or region.

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**SECTION 16, OTHER INFORMATION**

**Product Name:** Airwolf 3D PLA Premium 3D Printer Filament

**Disclaimer:** SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

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