



# Safety Data Sheet

Issued: March 17, 2017

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## Airwolf 3D CARBONITE Nylon 3D Printer Filament

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### SECTION 1, IDENTIFICATION

**Product Part Number:** F09118  
**Manufacturer:** Wolf & Associates, Inc. DBA Airwolf 3D  
**Address:** 11208 Young River Avenue, Fountain Valley, CA 92708  
**Phone Number:** +1 949-478-2933  
**Recommended Use:** 3D printing  
**Restrictions on Use:** Intended for use with 3D printers.

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### SECTION 2, COMPOSITION/INFORMATION ON INGREDIENTS

**Description:** Polyamide – additives/modifiers. This product is a mixture.

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### SECTION 3, HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW:

- Slight or no odor
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.

**Most Important Hazards:** None

**Adverse Human Health Effects:** None

**Environmental Effects:** None

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## SECTION 4, FIRST-AID MEASURES

<b>Ingestion:</b>	Not probable due to nature of the product. If a large amount of material is swallowed, consult a physician for medical treatment.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
<b>Skin:</b>	Immediately cool the skin by rinsing with cold water after contact with hot material. Wash off immediately with soap and plenty of water. Consult a physician.
<b>Eyes:</b>	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.
<b>Precautions:</b>	Processing vapors 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

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## SECTION 5, FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.
<b>Special Hazards:</b>	Can be released in case of fire: Carbon Monoxide (CO), Carbon Dioxide (CO <sub>2</sub> ), Nitrogen Oxides (NO <sub>x</sub> ), Hydrogen Cyanide (HCN).
<b>Special Fire-Fighting Procedure:</b>	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.

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## SECTION 6, ACCIDENTAL RELEASE MEASURES

<b>Methods for Cleaning Up:</b>	Sweep up. Collect in suitable and properly labeled containers.
<b>Personal Precautions:</b>	Spilled material may cause a slipping hazard. Use appropriate safety equipment.
<b>Environmental Precautions:</b>	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 accordance with good manufacturing practices, in cool place and far from direct sunlight. Protect from humidity and keep away from water

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## SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure limits:</b>	No components with information, unless noted below
<b>Engineering Measures to Reduce Exposure:</b>	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.
<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.

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## SECTION 9, PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	String/strand
<b>Color:</b>	Black
<b>Odor:</b>	None or slight
<b>Autoignition Temperature:</b>	Product is not self-igniting.
<b>Melting Temperature:</b>	170-190°C
<b>Solubility:</b>	Insoluble in water
<b>Specific Gravity:</b>	0,98 g/cc
<b>Explosive Properties:</b>	Product is not explosive.

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## SECTION 10, STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Chemical Stability:</b>	Stable
<b>Possibility of Hazardous Reactions:</b>	This product is not capable of dust explosion in the form supplied. Enrichment with fine dust causes risk of dust explosion.
<b>Hazardous Decomposition Products:</b>	None known.
<b>Conditions to Avoid:</b>	No further relevant information available.
<b>Incompatible Materials:</b>	Strong acids, strong oxidizing agents

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## SECTION 11, TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Inhalation unlikely due to physical form.
<b>Eye Contact:</b>	Solid or dust may cause irritation or corneal injury due to mechanical action. Elevated temperatures may generate vapor levels sufficient to cause eye irritation.
<b>Skin Contact:</b>	Prolonged contact is essentially non-irritating to skin. Mechanical injury only. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.
<b>Ingestion:</b>	Very low toxicity if swallowed.
<b>Aspiration Hazard:</b>	Based on physical properties, not likely to be an aspiration hazard.

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## SECTION 12, ECOLOGICAL INFORMATION

Do not flush into surface water or sanitary sewer system. Ecological damages are not known or expected under normal use.

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## SECTION 13, DISPOSAL CONSIDERATIONS

Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.

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## SECTION 14, TRANSPORT INFORMATION

Not classified as a dangerous good under transport regulations.

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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 CARBONITE Nylon 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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