



## ARTICLE SAFETY DATA SHEET

Print date: 30-Nov-2018

Revision Number: 1

Revision date: 29-Nov-2018

### 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

<b>Product Code:</b>	GEN-AMS-31
<b>Product Description:</b>	Thermoplastic filament
<b>Recommended use:</b>	May be used as support material in Fused Filament Fabrication processes
<b>Company:</b>	SABIC 2500 City West Blvd, Suite 650 Houston, TX 77042 USA Telephone: (713) 532-4999 www.sabic.com
<b>Emergency Telephone Number:</b>	800-424-9300
<b>Emergency Transportation/CHEMTREC (24 HOUR):</b>	800 424-9300 (USA) +1 703-527-3887 (globally, outside USA)
<b>E-mail:</b>	<b>productinquiries@sabic.com</b>
<b>Website Address:</b>	<b>www.sabic.com</b>

The additives in this product (if any) are bound in a thermoplastic resin matrix. In accordance with GHS for the classification of the product, the hazard potential may be assessed with respect to the physico-chemical form and/or bioavailability of the individual components in the thermoplastic resin.

Where GHS classifications are shown below, these are based on the individual components in the thermoplastic resin matrix. Under the typical use conditions for the resin, these hazardous components are unlikely to contribute to workplace exposure. Please read the entire safety data sheet and/or consult an EHS professional for a complete understanding.

Classification

**OSHA Regulatory Status**

This product is an article, and is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS-Labeling

**Emergency Overview**

<b>Not classified</b>		
<b>Appearance:</b> Filament	<b>Physical State:</b> Solid	<b>Odor:</b> None or slight

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

Not applicable

Other hazards that do not result in classification:

**SABIC Emergency Overview**

- Plastic filament
- 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.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

**Other Information:**

OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz), respirable glass and certain heavy metals, present in some colorants and fillers, as carcinogens. If these materials are present in this product at significant quantities, they are shown in Section 2/3. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

**Processing Issues:**

Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin.

**Aggravated Medical Conditions:** MEDICAL RESTRICTIONS: There are no known health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product Type** Article

The non-hazardous components and exact percentage (concentration) of the composition have been withheld as a trade secret.

This product consists primarily of high molecular weight polymers which are not expected to be hazardous.

### 4. FIRST AID MEASURES

<b>If Inhalation:</b>	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
<b>On skin contact:</b>	For hot product, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.
<b>On contact with 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>On ingestion:</b>	No hazards which require special first aid measures.
<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.

## 5. FIRE-FIGHTING MEASURES

<b>Autoignition Temperature:</b>	Not applicable
<b>Explosive Limits</b>	
<b>upper:</b>	Not applicable
<b>lower:</b>	Not applicable
<b>Suitable Extinguishing Media:</b>	Use dry chemical, CO2, water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.).
<b>Unsuitable Extinguishing Media for Safety Reasons:</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Hazards from Combustion Products:</b>	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.
<b>Special Protective Equipment for Firefighters:</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.
<b>Specific Hazards:</b>	Take precautionary measures against static discharges. Thermal decomposition can lead to release of irritating gases and vapors. Dust formed by operations such as cutting or grinding may form an explosive mixture in air.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Clean up:</b>	Gather and store in a closed container pending a recyclability or waste disposal evaluation.
<b>Personal Precautions:</b>	See section 8.
<b>Environmental Precautions:</b>	Dispose of in compliance with all Federal, state and local laws and regulations.

## 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. Accumulation of waste films, sheets and/or masking may create a slipping hazard.
<b>Storage:</b>	Keep away from heat sources and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering Measures to Reduce Exposure:</b>	Handle in accordance with good industrial hygiene and safety practices. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.
<b>Hand Protection:</b>	Protective gloves should be worn
<b>Eye Protection:</b>	Safety glasses
<b>Respiratory Protection:</b>	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 vapors 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.
<b>Body Protection:</b>	Long sleeved clothing
<b>Hygiene Measures:</b>	When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Filament
<b>Color:</b>	Same as color code
<b>Odor:</b>	None or slight
<b>Melting point/range:</b>	This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
<b>Autoignition Temperature:</b>	Not applicable
<b>Explosive Limits</b>	
Not applicable	<b>upper:</b>
Not applicable	<b>lower:</b>

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Conditions to Avoid:</b>	Do not exceed maximum temperatures recommended in the product literature.
<b>Hazardous Decomposition Products:</b>	Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>Other information on acute toxicity:</b>	There are no toxicological hazards associated with this product
<b>Chronic Toxicity:</b>	There are no toxicological hazards associated with this product.
<b>Special Studies:</b>	No Information.

## 12. ECOLOGICAL INFORMATION

<b>Other information:</b>	Not expected to end up in the environment under conditions of intended use and appropriate disposal or recycling.
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## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal:</b>	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.
<b>US EPA Waste number:</b>	None

## 14. TRANSPORT INFORMATION

<b>Transport Classification:</b>	Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.
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DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR

MEXICO

CANADA/TDG

ANTT 420

## 15. REGULATORY INFORMATION

### **International Inventories:**

Film, sheet and filament products are articles, exempt from registration or notification in those countries that have national chemical inventories.

### **CERCLA/SARA 311/312/313:**

This product is a non-hazardous article and therefore not subject to the requirements of Title III of SARA (Emergency Planning and Community Right-To-Know Act).

### **Canada:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

### **WHMIS hazard class:**

Non-controlled, article

### **RoHS EU Directive 2011/65/EU:**

This product is in compliance with the EU RoHS Directive 2002/95/EC. The following are not intentionally added during the manufacture of this product: a - cadmium and its compounds, b - lead and its compounds, c - mercury and its compounds, d - hexavalent chromium compounds, e - polybrominated biphenyls (PBBs), f - polybrominated diphenyl ethers (PBDEs, including Deca-BDE).

### **HMIS Rating**

**Health:** 0

**Flammability:** 1

**Reactivity:** 0

## 16. OTHER INFORMATION

SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.

### **SDS Scope:**

USA: Conforms to 29 CFR 1910.1200 (2012 OSHA Hazard Communication Standard)

Mexico: Conforms to NOM-018-STPS-2015

This document is also applicable in other countries and regions.

**Prepared by:** Product Stewardship

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**End of Safety Data Sheet**