

PREMIUM 3D FILAMENTS—ABS

ABS

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Premium 3D Filaments-ABS SDS Code: ABS

Other Means of Identification: Glow in the Dark, Thermochromic

Related Part # ABS17BK1, ABS17BK5, ABS17BL1, ABS17BL5, ABS17BR1, ABS17BR5, ABS17GD1, ABS17GD5, ABS17GO1, ABS17GO5, ABS17GR1, ABS17GR5, ABS17GY1, ABS17GY5, ABS17LI1, ABS17LI5, ABS17NA1, ABS17NA5, ABS17OR1, ABS17OR5, ABS17PI1, ABS17PI5, ABS17PU1, ABS17PU5, ABS17RE1, ABS17RE5, ABS17SGN1, ABS17SGN5, ABS17SI1, ABS17SI5, ABS17SK1, ABS17SK5, ABS17THGR1, ABS17THPU1, ABS17TL1, ABS17TL5, ABS17WH1, ABS17WH5, ABS17YE1, ABS17YE5, ABS30BK1, ABS30BK5, ABS30BL1, ABS30BL5, ABS30BR1, ABS30BR5, ABS30GD1, ABS30GD5, ABS30GO1, ABS30GO5, ABS30GR1, ABS30GR5, ABS30GY1, ABS30GY5, ABS30LI1, ABS30LI5, ABS30NA1, ABS30NA5, ABS30OR1, ABS30OR5, ABS30PI1, ABS30PI5, ABS30PU1, ABS30PU5, ABS30RE1, ABS30RE5, ABS30SGN1, ABS30SI1, ABS30SI5, ABS30SK1, ABS30SK5, ABS30TL1, ABS30TL5, ABS30WH1, ABS30WH5, ABS30YE1, ABS30YE5; ABS17THPU1, ABS17THGR1

Recommended Use and Restriction on Use

Use: Filament for 3D printing

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer

MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA MG Chemicals (Head Office) 9347-193 Street Surrey, British Columbia V4N 4E7 CANADA

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Section continued on the next page

Page **1** of **12**

SAI Global File #004008 Burlington, Ontario, Canada

PREMIUM 3D FILAMENTS—ABS

ABS

Emergency Phone Number

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents

USA or CANADA: Call CHEMTREC **2**: +1-800-424-9300

For emergencies involving dangerous goods; Collect 24/7

CANADA: Call CANUTEC **a**: +1-613-996-6666 or *666 on cellular phones

Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Non-hazardous—does not meet WHMIS or OSHA GHS classification criteria.

Label Elements

Signal Word	None Mandated
Pictograms	Hazard Statements
None mandated	None

Hazards Not Otherwise Classified

Not applicable.

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
9003-56-9	acrylonitrile butadiene styrene polymer ^{a)}	<100%

a) Non-hazardous component



PREMIUM 3D FILAMENTS—ABS

ABS

Section 4: First-Aid Measures

Exposure Condition	GHS Code/Symptoms/Precautionary Statements
IF IN EYES	P305 + P351 + P338
Immediate Symptoms	mild irritation
Response	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED	P301 + P310
Immediate Symptoms	May cause gastrointestinal blockage.
Response	IF SWALLOWED: Rinse mouth.
IF ON SKIN	
Immediate Symptoms	Low toxicity: without known symptoms or adverse effects
Response	If symptoms occur, wash hands. Get medical advice if symptoms persist.
IF INHALED	P304 + P340
Immediate Symptoms	Exposure to heated vapors or fumes: eye irritation, upper respiratory tract irritation, nausea, headaches
Response	Remove person to fresh air and keep comfortable for breathing.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. If in a molten state, do not apply direct water stream.
Specific Hazards	See combustion products.
Combustion Products	Produces carbon oxides (CO,CO ₂), with traces of styrene, ethylbenzene, and hydrogen cyanide
Fire-Fighter	Wear self-contained breathing apparatus and full fire- fighting turn-out gear.



SAI Global File #004008 Burlington, Ontario, Canada

PREMIUM 3D FILAMENTS—ABS

ABS

Section 6: Accidental Release Measures

Personal Protection See personal protection recommendations in Section 8.

Precautions for

Response

Not applicable

Environmental

Precautions

Not applicable

Containment Methods

Not applicable

Cleaning Methods

Reclaim material if possible. Wash spill area with soap and

water.

Disposal Methods

May be disposed of as regular waste.

Section 7: Handling and Storage

Prevention Avoid breathing fumes.

Handling Wash hands thoroughly after handling.

Storage Not applicable.

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

This product contains no substances with occupational exposure limits.

Engineering Controls

Ventilation General ventilation is adequate for normal use; keep overall

exposure as low as possible.

Section continued on next page

SAI Global File #004008 Burlington, Ontario, Canada

PREMIUM 3D FILAMENTS—ABS

ABS

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety

goggles.

Recommendation: Ensure that glasses have side shields for

lateral protection.

Skin Protection No skin protection required.

Respiratory Protection For over-exposures to dust/vapors/fumes, wear respirator

such as a half-mask respirator with organic vapor cartridges.

For exposure to combustion products, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Solid	Lower Flammability Limit	Not applicable
Appearance	Variable colors	Upper Flammability Limit	Not applicable
Odor	Faint to odorless	Vapor Pressure @20°C	Not available
Odor Threshold	Not available	Vapor Density	Not applicable
рН	Not available	Relative Gravity @25°C	1.1
Freezing/Melting	≥100 °C	Solubility in	Insoluble
Point	[≥212 °F]	Water	
Initial Boiling	Not	Partition Coefficient n-octanol/water	Not
Point	available		available
Flash Point	Not	Auto-ignition	≥400 °C
	applicable	Temperature	[≥752 °F]
Evaporation	Not	Decomposition	Not
Rate	available	Temperature	available
Flammability	Not	Viscosity	Not
(solid, gas)	available	@40 °C	applicable

Page **5** of **12**



SAI Global File #004008 Burlington, Ontario, Canada

PREMIUM 3D FILAMENTS—ABS

ABS

Section 10: Stability and Reactivity

Reactivity Not available

Chemical Chemically stable at normal temperatures and pressures. When Stability

heated at 200 °C and above, it may release residual styrene and

ethylbenzene.

Conditions to Avoid

Incompatible substances, open flames, and temperatures above

300 °C [572 °F]

Incompatibilities None known **Polymerization** Will not occur

Decomposition Will not decompose under normal conditions. For thermal

decomposition, see combustion products in Section 5

Section 11: Toxicological Information

Summary of Effects and Symptoms by Routes of Exposure

Under normal conditions, no effect known or expected. **Eyes**

If exposed to heated vapors or fumes: may cause eye irritation.

Skin Under normal conditions, no effect known or expected.

If exposed to heated vapors or fumes: may cause skin irritation.

Inhalation Under normal conditions, no effect known or expected.

If exposed to heated vapors or fumes: may cause upper respiratory tract

irritation, headaches, nausea

Ingestion May cause gastrointestinal blockage.

No effect known Chronic

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
acrylonitrile butadiene	>5 g/kg	Not	Not
styrene polymer	Rat	available	available

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier (M)SDSs were also consulted.

Section continued on the next page

Page **6** of **12**



SAI Global File #004008

Burlington, Ontario, Canada

PREMIUM 3D FILAMENTS—ABS

ABS

Skin corrosion/irritation Based on available data, the classification criteria are

not met.

Serious eye Based on available data, the classification criteria are

not met.

Sensitization Based on available data, the classification criteria are

not met.

Carcinogenicity None of the ingredients are classified or listed as a (risk of cancer) carcinogen by IARC, ACGIH, CA Prop 65, or NTP.

Based on available data, the classification criteria are Mutagenicity

not met.

(risk of heritable genetic

damage/irritation

(allergic reactions)

effects)

Reproductive Toxicity

(risk to sex functions)

Based on available data, the classification criteria are

not met.

Teratogenicity (risk of fetus

malformation)

Based on available data, the classification criteria are

not met.

STOT-single exposure Based on available data, the classification criteria are

not met.

Based on available data, the classification criteria are **STOT-repeated exposure**

not met.

Aspiration hazard Not applicable—solid substance



SAI Global File #004008 Burlington, Ontario, Canada

PREMIUM 3D FILAMENTS—ABS

ABS

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (http://echa.europa.eu), and other reliable sources. The component substances are not classifiable as an environmental toxicant.

Acute Ecotoxicity

No data available.

Chronic Ecotoxicity

Available data doesn't give rise to classification as a chronic ecotoxicant.

Biodegradability

Not readily biodegrable

Bioaccumulation

No data availale

Other Effects

None known

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.



SAI Global File #004008 Burlington, Ontario, Canada

PREMIUM 3D FILAMENTS—ABS

ABS

Section	14: Trai	sport I	nformation
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Ground

Refer to TDG (Canadian Transportation of Dangerous Goods regulations) and USA DOT 49 CFR (Parts 100 to 185) Regulations.		
Not Regulated		

Air

Refer to ICAO-IATA Dangerous Goods Regulations.		
Not Regulated		

Sea

Refer to IMDG regulations.	
Not Regulated	

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

Section continued on the next page





PREMIUM 3D FILAMENTS—ABS

ABS

USA

Other Classifications

HMIS® RATING

HEALTH:	0
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains does not contain substances which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity).

When heated for 3D printing, this product may release residual amounts of styrene (CAS # 100-42-5) and ethylbenzene (CAS # 100-41-4), which are listed as a carcinogen.

Europe

RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Page 10 of 12

SAI Global File #004008 Burlington, Ontario, Canada

PREMIUM 3D FILAMENTS—ABS

ABS

Section 16: Other Information

SDS Prepared by Michel Hachey **Date of Review** 05 February 2019 **Supersedes** 21 February 2017

Reason for Changes: Change to Section 15, California Proposition 65.

Reference

- 1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

Section continued on the next page



SAI Global File #004008

Burlington, Ontario, Canada

ABS

PREMIUM 3D FILAMENTS—ABS

Technical Queries Contact us regarding any questions, improvement suggestions, or

problems with this product. Application notes, instructions, and FAQs

are located at www.mgchemicals.com.

Email: support@mgchemicals.com

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L7L 5R6 V4N 4E7

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