

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Premium 3D Filaments-ABS

PREMIUM 3D FILAMENTS-ABS

SDS Code: ABS

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, ABS17L11, ABS17L15, 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, ABS30GD1, ABS30GD5, ABS30GC1, ABS30GC5, ABS30GR1, ABS30GR5, ABS30GY1, ABS30GY5, ABS30L11, ABS30L15, ABS30NA5, ABS30OR1, ABS30OR5, ABS30SI1, ABS30SI5, ABS30PU1, ABS30PU5, ABS30RE1, ABS30RE5, ABS30SGN1, ABS30SI1, ABS30SI5, ABS30SK1, ABS30SK5, ABS30TL1, ABS30TL5, ABS30WH1, ABS30WH5, ABS30YE1, ABS30YE5; ABS30YE5; ABS30YE1, ABS30YE5; ABS30YE1, ABS30YE5; ABS30YE5; ABS30YE5; ABS30YE1, ABS30YE5; ABS3

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

| 2 | +1-800-340-0772 | a | +1-905-331-1396 |
|--------|-------------------------|----------|----------------------|
| FAX | +1-800-340-0773 | FAX | +1-905-331-2682 |
| E-MAIL | support@mgchemicals.com | E-MAIL | info@mgchemicals.com |
| WEB | www.mgchemicals.com | | |

E-маіL (Competent Person): <u>sds@mgchemicals.com</u>

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Emergency Phone Number

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents USA or CANADA: Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962** (Service access code: 335388)

For emergencies involving dangerous goods; Collect 24/7 CANADA: Call CANUTEC **2**: +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 |
| <i>None mandated</i> | 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



ISO 9001:2015 Quality Management System SAI Global File #004008

Burlington, Ontario, Canada

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| 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 | <i>Exposure to heated vapors or fumes: eye irritation, upper respiratory tract irritation, nausea, headaches</i> | |
| 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. |



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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

VentilationGeneral ventilation is adequate for normal use; keep overall
exposure as low as possible.

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

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Section 10: Stability and Reactivity

| Reactivity | Not available |
|------------------------|--|
| Chemical Stability | Chemically stable at normal temperatures and pressures. When heated at 200 °C and above, it may release residual styrene and ethylbenzene. |
| Conditions to Avoid | Incompatible substances, open flames, and temperatures above 300 $^{\circ}\text{C}$ [572 $^{\circ}\text{F}$] |
| 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

| Eyes | Under normal conditions, no effect known or expected. |
|------------|---|
| | 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. |
| Chronic | No effect known |

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.

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| Other Toxicological Effects | | | |
|---|--|--|--|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. | | |
| Serious eye damage/irritation | Based on available data, the classification criteria are not met. | | |
| Sensitization (allergic reactions) | Based on available data, the classification criteria are not met. | | |
| Carcinogenicity (risk of cancer) | None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP. | | |
| Mutagenicity (risk of heritable genetic effects) | Based on available data, the classification criteria are not met. | | |
| 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. | | |
| STOT-repeated exposure | Based on available data, the classification criteria are not met. | | |
| Aspiration hazard | Not applicable—solid substance | | |

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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 (<u>http://echa.europa.eu</u>), 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.

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Section 14: Transport Information

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.

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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 carcinogens.

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.

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Section 16: Other Information

SDS Prepared by Michel Hachey

Date of Review 27 February 2020

Supersedes 05 February 2019

Reason for Changes: Change to emergency phone number.

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

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Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at <u>www.mgchemicals.com</u>.

Email: support@mgchemicals.com

| Mailing Addresses | Manufacturing & Support |
|-------------------|-----------------------------|
| | 1210 Corporate Drive |
| | Burlington, Ontario, Canada |
| | L7L 5R6 |

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Disclaimer This safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.

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