

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Toner Plastics ABS Filament

**SYNONYMS:** Toner Plastics ABS 3D Printing Filament

**MANUFACTURER:** Toner Plastics, Inc.  
**ADDRESS:** 35 Industrial Drive  
East Longmeadow, MA 01001

**EMERGENCY PHONE:** 413-525-2369  
**OTHER CALLS:** 413-525-2369  
**HOME PAGE:** [www.tonerplastics.com](http://www.tonerplastics.com)  
**CONTACTS:** Michael Reed - Manufacturing Engineer mr@tonerplastics.com

### SECTION 2: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

This product is not classified according to 29 CFR 1910.1200 Hazard Communication Standard.

#### POTENTIAL HEALTH EFFECTS:

**EYES:** None  
**SKIN:** None  
**INGESTION:** None  
**INHALATION:** None

**CHRONIC HEALTH HAZARDS:** See section 11 for more information.

**OTHER HAZARDS:** Dust that may be generated from processing or other means may become combustible.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NO.	%WT
Styrene-acrylonitrile-butadiene copolymer	9003-56-9	>98%
Styrene	100-42-5	<.1%

### SECTION 4: FIRST AID MEASURES

**EYE CONTACT:** Rinse immediately with water for 15 minutes. Call a physician immediately.

**SKIN CONTACT:** Not expected to cause irritation. After contact with skin, wash immediately with water. If irritation persists, contact a physician.

**INGESTION:** Drink water as a precaution. Do not induce vomiting without medical advice. Call a physician immediately.

**INHALATION:** Move to fresh air. Call a physician.

**NOTES TO PHYSICIANS:** Treat symptomatically, decontamination, vital functions.

### SECTION 5: FIRE-FIGHTING MEASURES

**FLAMABILITY CLASS:** 1

**EXTINGUISHING MEDIA:** Foam, Water, Carbon Dioxide (CO<sub>2</sub>), Dry Chemical

**SPECIAL PROTECTIVE EQUIPMENT:** Wear self-contained breathing apparatus, MSHA/NIOSH approved full protective gear.

**UNDER FIRE CONDIDITONS:** Fine dust may ignite.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Use personal protective equipment. Avoid contact with skin and eyes. Sweep up to prevent slipping. Avoid dust formation and all sources of ignition.

**ENVIRONMENTAL PRECAUTIONS:** Do not allow material to contaminate ground water.

**METHODS FOR CLEANING UP:** Exercise good housekeeping practices. Collect in suitable containers for disposal.

### SECTION 7: HANDLING AND STORAGE

**SAFE HANDLING:** Avoid contact with skin and eyes. Use personal protective equipment to protect against the possibility of contact with molten material. Avoid dust formation. Avoid overheating.

**STORAGE:** Store in a cool, dry place. Avoid UV exposure.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE GUIDELINES:

Occupational Exposure Limit Values:

CAS No.	Designation	Type	Limit value
100-42-5	Styrene	OSHA: Ceiling USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	200 ppm 170 mg/m <sup>3</sup> , 40 ppm 85 mg/m <sup>3</sup> , 20 ppm 425 mg/m <sup>3</sup> , 100 ppm 215 mg/m <sup>3</sup> , 50 ppm 100 ppm

Biological Limit Values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
100-42-5	Styrene	USA: ACGIH-BEI, blood	0.2 mg/L	Styrene in venous blood	End of exposure or end of shift
		USA: ACGIH-BEI, urine	400 mg/g creatinine	Mandelic acid + phenylglyoxylic acid	End of exposure or end of shift

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## SAFETY DATA SHEET

<b>ENGINEERING CONTROLS:</b>	Provide good ventilation. Additional controls are not normally necessary. Local exhaust ventilation may be required during processing.
<b>RESPIRATORY PROTECTION:</b>	Respiratory protection must be worn whenever TLV levels have been exceeded. Use Filter type A-P2.
<b>EYE PROTECTION:</b>	Safety glasses with side shields.
<b>SKIN PROTECTION:</b>	Impervious clothing.
<b>WORK HYGIENIC PRACTICES:</b>	Avoid contact with skin, eyes, and clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Cord
<b>ODOR:</b>	Weak
<b>PHYSICAL STATE:</b>	Solid
<b>PH:</b>	NA
<b>DENSITY:</b>	1.04 g/cm <sup>3</sup>
<b>DECOMPOSITION TEMP:</b>	572°F
<b>MELTING POINT/RANGE:</b>	212°F
<b>AUTOIGNITION TEMP:</b>	752°F
<b>WATER SOLUBILITY:</b>	Insoluble
<b>SOLUBILITY IN OTHER SOLVENTS:</b>	Not determined

## SECTION 10: STABILITY AND REACTIVITY

<b>STABILITY:</b>	Not expected under normal conditions.
<b>CONDITIONS TO AVOID:</b>	Avoid temperatures above the decomposition temperature (250°C).
<b>MATERIALS TO AVOID:</b>	Oxidizing agents.

**Hazardous decomposition products:** Hydrogen cyanide, carbon monoxide, carbon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

**PRINCIPAL ROUTES OF EXPOSURE:** Eye contact, skin contact, inhalation, ingestion.

**ACUTE TOXICITY:** Lack of data.

**LOCAL EFFECTS:** Dust may be irritating to eyes, skin, and respiratory system.

**SPECIFIC EFFECTS:** May cause skin irritation. Fumes may cause respiratory tract irritation.

**LONG TERM TOXICITY:** None found.

**MUTAGENIC EFFECTS:** None found.

**REPRODUCTIVE TOXICITY:** None found.

**CARCINOGENIC EFFECTS:** None found.

**TARGET ORGAN EFFECTS:** Lack of data.

**SKIN:** Lack of data.

**INGESTION:** Lack of data.

**STYRENE:** Harmful if inhaled. Can cause damage to organs with repeat exposure. May be fatal if swallowed and enters airways. Symptoms: Skin, eye, respiratory tract irritation. Swallowing may cause gastrointestinal irritation and pain.

### SECTION 12: ECOLOGICAL INFORMATION

**ECOTOXICITY EFFECTS:** No evidence.

**PERSISTANCE AND DEGRADABILITY:** Not readily biodegradable.

**BIOACCUMULATION:** Not expected.

**MOBILITY:** No data.

### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** In accordance with local and federal regulations.

### SECTION 14: TRANSPORT INFORMATION

**NOTES:** Not regulated by the US Department of Transportation.

### SECTION 15: REGULATORY INFORMATION

#### FEDERAL REGULATIONS:

##### Styrene:

TSCA Inventory List: Listed

Carcinogen Status:

IARC Rating: Group 2B

Clean Air Act:

Hazardous Air Pollutants: Code XOY

SOCMI Chemical: Yes

Clean Water Act:

Hazardous Substance: RQ 1000lbs

Other:

CERCLA: RQ 1000lbs

RCRA: Methods 8020, 8240 / PQL 1, 5

SARA Title III Section 313: Conc 0.1% / Threshold Standard

NIOSH Recommendations:

Occupational Health Guideline: 0571

#### STATE REGULATIONS:

California Proposition 65: This product contains a chemical(s) known to The State of California to cause cancer and birth defects or other reproductive harm.

### SECTION 16: OTHER INFORMATION

**Disclaimer:** The information herein given is in good faith, but no warranty, express or implied, is made. Consult the company for further information.

**Notice Regarding Medical Application Restrictions:** The company does not recommend any of its products, including samples, for use (A) in any application which is intended for any internal contact with human bodily fluid or body tissues, (B) as a critical component in any medical device that supports or sustains human life, and (C) specifically pregnant women or in any applications designed specifically to promote or interfere with human reproduction.