

Material Safety Data Sheet (MSDS)

1. Identification of the substance / preparation and of the company

1.1 Trade name Hand Breakaway Filament

1.2 Use of the product 3D printer filament

1.3 Supplier Next Print Studio

Emergency phone number In case of toxicological emergency, contact your doctor

2. Hazards identification according to regulation (EC) No 1272/2008 and GHS

- | | |
|------------------------------------------------|----------------------------------------------------------------------------------------|
| 2.1 Classification of the substance or mixture | No risk exists to the health of users if the product is handled and processed properly |
| 2.2 Label elements | - |
| 2.3 Other hazards | Not known |

3. Composition / information on ingredients

- | | |
|-----------------|-----------------------|
| 3.1 Composition | Not applicable |
| 3.2 Mixture | Thermoplastic plastic |

4. First-aid measures

- 4.1 Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.
- 4.2 Eyes: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms occur. If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.
- 4.3 Skin: If burned by contact with molten material, cool as quickly as possible. Do not peel material from skin. Get medical attention.
- 4.4 Ingestion: Seek medical advice. Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary.
- 4.5 Note to Physicians: Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary.

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media: water spray, dry chemical
- 5.2 Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

5.3 Hazardous Combustion Products: carbon dioxide, carbon monoxide

5.4 Unusual Fire and Explosion Hazards: Powdered material may form explosive dust-air mixtures.

6. ACCIDENTAL RELEASE MEASURES

6.1 Sweep or scoop up and remove.

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable unless listed below.

7.1 Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances; such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

7.2 Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

7.3 Eye Protection: Wear a face shield when working with molten material.

7.4 Skin Protection: When material is heated, wear gloves to protect against thermal burns.

7.5 Recommended Decontamination Facilities: eye bath, washing facilities

8. PHYSICAL AND CHEMICAL PROPERTIES

8.1 Color: varies with product

8.2 Odor: odorless

8.3 Specific Gravity: > 1 (estimated)

8.4 Softening Point: varies with formulation

8.5 Solubility in Water: negligible

8.6 Flash Point: not applicable, combustible solid