

840265-CN-EN Solidscape® Printer Support Material

Chemical Safety Data Sheet

The SDS is prepared in accordance with GB/T 16483, GB/T 17519 and GB 30000

Revision date: 2017/10/26

Preparation date: 2017/10/25

Version: B

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier

Product Form: Mixture

Product Name: Melt™-I, StarterPak

Product Code: 970166, 970167

Intended Use of the Product

Recommended Uses and Restrictions: Support material for use with Solidscape® Printers. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company

Solidscape, Inc.

316 Daniel Webster Highway

Merrimack, NH 03054

603-429-9700

www.solidscape.com

precision@solidscape.com

Emergency Telephone Number

Emergency Number: 603-429-9700 8am - 5pm, Monday - Friday, Eastern Standard Time

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview:

A purple solid with faint odor to be used as support material for use with 3Z Printer. Causes mild skin irritation. If dust is generated, may form combustible dust concentrations in air.

Classification of the Substance or Mixture

GHS classification (CN)

Health hazards : Skin corrosion/irritation, Category 3

Signal Word (GHS-CN) : Warning

Hazard Statements (GHS-CN) : Causes mild skin irritation (H316)

Response Precautionary Statements : If skin irritation occurs: Get medical advice/attention (P332+P313).

Health Hazard Information

Symptoms/Injuries: Causes mild skin irritation. Risk of thermal burns on contact with molten product.

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes mild skin irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: The chronic effects of this substance are unknown.

Physiochemical Hazard No data available

Environmental Hazard No data available

Other Hazards

Other Hazards Which Do not Result in Classification : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. The dried or powdered form of this substance may form combustible dust concentrations in air.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture/Substance

Distinction of Substance or Mixture : Mixture

Name	Concentration
Proprietary Chemical 1	30 - 60%
Proprietary Chemical 2	20 - 50%
Proprietary Chemical 3	5 - 15%
Proprietary Chemical 4	5 - 15%
Proprietary Chemical 5	1 - 5%
Proprietary Chemical 6	< 5%
Proprietary Chemical 7	1 - 5%
Proprietary Chemical 8	< 1%

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SECTION 4: FIRST AID MEASURES

First Aid

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area.

First-aid Measures After Skin Contact: Remove contaminated clothing. Rinse affected area with water for at least 5 minutes. If skin irritation occurs: Get medical advice/attention. Cool skin rapidly with cold water after contact with molten product. Removal of solidified molten material from skin requires medical assistance.

First-aid Measures Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting.

The Most Important Symptoms and Health Effects

Symptoms/Injuries: Causes mild skin irritation. Risk of thermal burns on contact with molten product.

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes mild skin irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: The chronic effects of this substance are unknown.

Advice for The Rescuer

Use appropriate personal protection equipment (PPE).

Special Note for Doctor

Other medical advice or treatment: If you feel unwell, seek medical advice (show the label where possible)

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards

Fire Hazard: Not flammable but will support combustion.

Explosion Hazard: Product itself is not explosive but if dust is generated, dust clouds suspended in air can be explosive.

Reactivity in Case of Fire: Hazardous reactions will not occur under normal conditions.

Hazardous Decomposition Products in Case of Fire: Carbon oxides (CO, CO₂). Hydrocarbons.

Fire Precautions and Protective Measures

Precautionary Measures Fire: Do not breathe fumes from fires or vapours from decomposition.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Specific Fire Fighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Prevention Measures for Secondary Accidents: Eliminate ignition sources. Ventilate area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures Avoid all unnecessary exposure. Do not breathe dust or fumes. Avoid generating dust.

For Non-Emergency Personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

Environmental Protection Measures

Environmental Precautions: Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material Used for Collection, Disposal of Leak

Methods and Equipment for Containment and Cleaning up: Clean up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills.

Precautionary Measures to Prevent the Occurrence of Secondary Disasters

Secondary Disaster Prevention Measures: Eliminate ignition sources. Ventilate area.

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SECTION 7: HANDLING AND STORAGE

Handling

Technical Measures: Risk of thermal burns on contact with molten product. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Local and General Ventilation: Ensure adequate air ventilation.

Precautions for Safe Handling: Keep away from heat and open flame.

Prevents Handling of Incompatible Substances or Mixtures: Keep away from: Strong oxidizers.

Storage

Technical Measures: Comply with applicable regulations.

Incompatible Substances or Mixtures: Refer to Section 10.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Material Used in Packaging/containers: No additional information

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Proprietary Chemical 1		
ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (fume)
China	OEL STEL	4 mg/m ³ (fume)
China	OEL TWA	2 mg/m ³ (fume)

Biological Limits

No data available

Monitoring Methods

No data available

Engineering Controls

Appropriate Engineering Controls: Not generally required. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal Protective Equipment

Personal Protective Equipment: Not generally required. The use of personal protective equipment may be necessary as conditions warrant.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	: Purple
Physical State	: Solid
Odour	: Faint
pH Value	: No data available
Melting point/Freezing Point	: 55 - 60 °C (131 - 140 °F)
Boiling Point, Initial Boiling Point and Boiling Range	: No data available
Flash Point	: No data available
Autoignition Temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative Vapour Density At 20 °C	: No data available
Density/ Relative density	: ≈ 0.96

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Solubility	:	No data available
N-octanol/water Distribution Coefficient	:	No data available
Decomposition Temperature	:	No data available
Viscosity	:	No data available
Explosive Limits (G/M ³)	:	No data available
Explosive Limits (Vol %)	:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures. Generation of airborne dust. Excessive dust accumulation.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: Thermal decomposition generates: Carbon oxides (CO, CO₂). Aldehydes. Ketones.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral) - Description	:	Not classified
Acute Toxicity (Dermal) - Description	:	Not classified
Acute Toxicity (Inhalation) - Description	:	Not classified
Skin Corrosion/Irritation - Description	:	Causes mild skin irritation.
Serious Eye Damage/Irritation - Description	:	Not classified
Respiratory or Skin Sensitization - Description	:	Not classified
Germ Cell Mutagenicity - Description	:	Not classified
Carcinogenicity - Description	:	Not classified
Reproductive Toxicity - Description	:	Not classified
Specific Target Organ Toxicity (Single Exposure) - Description	:	Not classified
Specific Target Organ Toxicity (Repeated Exposure) - Description	:	Not classified
Aspiration - Description	:	Not classified
Other Health Hazard	:	No data available

Information on Toxicological Effects Ingredient(s)

Proprietary Chemical 7	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 3160 mg/kg
LC50 Inhalation Rat (mg/l)	> 46 mg/l (Exposure time: 1 h)
Proprietary Chemical 6	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
Proprietary Chemical 4	
LD50 Oral Rat	10000 mg/kg
LD50 Dermal Rabbit	> 3600 mg/kg
Proprietary Chemical 1	
LD50 Oral Rat	> 3750 mg/kg
LD50 Dermal Rabbit	> 3600 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Acute Aquatic Toxicity - Description	:	Not classified
Acute Chronic Toxicity - Description	:	Not classified

Proprietary Chemical 7	
LC50 Fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
LC 50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

Persistence and Degradability Not established

Bioaccumulative Potential

Proprietary Chemical 7	
Log Pow	23 (at 25 °C)

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Proprietary Chemical 4	
Log Pow	> 6

Mobility in Soil

Proprietary Chemical 6	
Log Koc	51.05

Other Adverse Effects

Ozone - Description : Not classified
Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Chemicals

Additional Information: Avoid release to the environment.

Disposal Matters

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance with UNRTDG Not regulated for transport

In Accordance with IATA Not regulated for transport

In Accordance with IMDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

Asia/Pacific Regulations No additional information available

International Agreements No additional information available

SECTION 16: OTHER INFORMATION

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Other Information : The SDS is prepared in accordance with GB/T 16483 & GB/T 17519 and and GB 30000.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS China GHS