



# ULTEM® Build Sheet

Material Safety Data Sheet

109388-0001 Rev A

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name	Ultem® Build Sheet
Chemical Family	Polyetherimide
General Use	Build Sheet for Stratasys®, Inc. FDM™ Modeler
Manufacturer and Address	Stratasys Inc. 7665 Commerce Way Eden Prairie, MN 55344-2080 USA
Emergency Telephone Number	+1 952-937-3000

## 2. COMPOSITION, INGREDIENT INFORMATION

COMPONENT	CAS #	%	OSHA/PEL	ACGIH/TLV
Polyetherimide	61128-46-9	100	Na	Na

## 3. HAZARDS IDENTIFICATION

Emergency Overview	
HMIS Ratings	Health: 0   Flammability: 1   Reactivity: 0   PPE =
Inhalation	Vapors may irritate respiratory tract
Eye Contact	Dust or vapors may irritate eyes or cause corneal injury due to mechanical action
Skin Contact	Molten material will produce thermal burns
Ingestion	Ingestion unlikely due to physical form
Skin Absorption	No information available
Chronic/Carcinogenicity	No information available

**MEDICAL RESTRICTIONS:** There are no known health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairment may be affected by exposure to components in the processing vapors.



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## 4. EMERGENCY AND FIRST AID MEASURES

Inhalation	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, contact a physician.
Skin Contact	Cool skin rapidly with cold water after contact with hot polymer. Wash off immediately with plenty of soap and water. Consult a physician.
Processing Fumes	Processing fumes inhalation may be irritating to the respiratory tract. If symptoms are experienced remove from the source of contamination or move the victim to fresh air and obtain medical advice.
Eye Contact	Immediately flush with plenty of water. After initial flushing remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.
Ingestion	No hazards which require first aid measures.

## 5. FIRE-FIGHTING MEASURES & EXPLOSION HAZARD DATA

Fire Fighting Instructions	Water spray mist or foam
Extinguishing Media which must not be used for safety reasons	Carbon dioxide and dry chemical are not recommended because of their lack of cooling capacity may permit re-ignition.
Conditions of Flammability	No auto ignition information available
Explosion Data	No limits determined
Hazardous Combustion Products	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments, nitrogen oxides.

## 6. ACCIDENTAL RELEASE MEASURES

General	Sweep up and shovel into suitable containers for disposal.
Specific	Do not flush into surface water or sanitary sewer system.

## 7. HANDLING & STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of processing equipment must be earthed.
Storage	Keep tightly closed in a cool dry place. Keep away from heat and sources of ignition.



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## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery. Processing fume condensate may be a fire hazard and toxic.
Personal Protection:	
Respiratory	When using this product at elevated temperatures, implement engineering systems, administrative controls or a respirator protection program ( including a respirator approved for protection from organic vapors, acid gases and particulate matter) if processing fumes are not adequately controlled or operators experience symptoms of overexposure. If dust of powder produced from secondary operations such as sawing or grinding use a respirator approved for protection from dust.
Eye/Face Protection	Safety glasses with side shields or chemical goggles. In addition use full face shield when cleaning processing fume condensates from machine surfaces.
Skin	Long sleeved clothing.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical State	solid
Odor	None or slight
Melting Point	This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
Vapor Pressure	negligible
Specific Gravity (water = 1)	>1; (water = 1)
Water Solubility	Insoluble
% Volatiles	Negligible

## 10. STABILITY & REACTIVITY

Stability	Stable at normal conditions.
Reactivity	
Conditions to Avoid	Avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Do not exceed melt temperature recommendations in product literature. In order to avoid auto ignition /hazardous decomposition of hot thick masses of plastic, purgings should be collected in small flat shapes or thin strands to allow rapid cooling. Quench in water.
Hazardous Polymerization	Hazardous polymerization does not occur.



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## 11. TOXICOLOGICAL DATA

ACUTE HEALTH HAZARDS	
Acute Oral	Build sheet ingestion unlikely due to physical form.
Skin Contact	Build sheet not likely to cause skin irritation.
Eye Contact	Build sheet eye irritation unlikely due to physical form.
SUBCHRONIC HEALTH HAZARDS	
Sub chronic Toxicity	No data available.

## 12. ECOLOGICAL INFORMATION

General	Do not flush into surface water or sanitary sewer system. Ecological damages are not known or expected under normal use.
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## 13. DISPOSAL INFORMATION

Waste Disposal	Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements.
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## 14. TRANSPORT INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)

Department of Transportation (D.O.T.)	Not regulated as hazardous for shipment.
Canadian TDG Information	
IATA Regulation	
IMO Regulation	

**15. REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)****International Inventories:**

TSCA (USA):	Listed
DSL/NDSL (Canada):	Listed
EINECS/ELINCS (Europe):	Listed
ENCS (Japan):	Listed
IECA (China):	Listed
KECL (Korea):	Listed
PICCS (Philippines):	Not listed – Conditional or limited quantity approval
AICS (Australia):	Not listed

**Other Inventory Information:**

A “listed” product entry above means all chemical components are on the respective inventory list and/or a qualifying exemption exists for one or more components. A “not listed” entry above indicates one or more components are restricted from import or manufacture in that country or region.

**SARA 313:**

Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA (31`1,312) Hazard Class:**

Acute Health	N
Chronic Health Hazard	N
Fire Hazard	N
Sudden Release of Pressure Hazard	N
Reactive Hazard	N

**Canada:**

This product has been classified in accordance with the hazard criteria of Controlled Product Regulations (CPR) and MSDS contains all information required by CPR.

**WHIMIS hazard class:**

Non-controlled

**California Proposition 65:**

This product does not contain components known to the state of California to cause cancer and/or reproductive effects.



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## 16. OTHER INFORMATION

THE INFORMATION contained in the PROCEEDING report is based upon current knowledge, our experience with the product, and is not exhaustive. While not guaranteed, the information presented herein was prepared by a competent, technical professional and is true and accurate to the best of our knowledge. The information applies to product as defined by the specifications. If the product is mixed with other substances, the customer must confirm that no new hazards exist. In all cases, the user is not exempt from following all legal, administrative and regulatory procedures relating to the product, personal hygiene, and the integrity of the work environment. Stratasys Inc. shall not be held liable for any damage resulting from handling or from contact and use with the above product.

### Revision History

Revision	Revision Date
A	6-13-2012