



SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trademark: ULTEM™
Product Code: SF2250 -1100

Product Description: Polyetherimide [CASRN 61128-46-9] glass fiber filled

Product Type: Commercial Product

Recommended use: May be used to produce molded or extruded articles or as a component of other industrial products.

Company: SABIC Innovative Plastics
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Pittsfield, MA 01201 USA
(413) 448-5800
www.sabic-ip.com

Manufacturer: SABIC Japan LLC.
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Moka-shi,
Tochigi-ken,
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Website Address: www.sabic.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS:

| Chemical Name | CAS Number | Weight % |
|---------------|------------|----------|
| FIBERGLASS | 65997-17-3 | 10 - 30 |

If present, components listed above are physical or health hazards as defined in the Hazard Communication Standard. The quantities represent typical or average values for the materials shown. Additional compositional data are provided in Section 15, REGULATORY INFORMATION.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Pellets with slight or no odor
- Spilled material may create slipping hazard
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

HMIS Rating **Health: 0** **Flammability: 1** **Reactivity: 0**

| | |
|---------------------------|--|
| Skin Contact: | Contact causes skin irritation. |
| Eye Contact: | Resin particles, like other inert materials, are mechanically irritating to eyes. |
| Inhalation: | Irritating to respiratory system; avoid inhalation of dusts. |
| Ingestion: | Pellet ingestion unlikely due to physical form. |
| Sensitization: | No information available on this product |
| Other Information: | OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz), respirable glass and certain heavy metals, present in some colorants and fillers, as carcinogens. If these materials are present in this product at significant quantities, they are shown in Section 2/3. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions |

Chronic/Carcinogenic Information

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| Chronic Toxicity: | No information available |
| Processing Issues: | Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin. |
| Aggravated Medical Conditions: | MEDICAL RESTRICTIONS: There are no known health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors. |

4. FIRST AID MEASURES

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| If Inhalation: | Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician. |
| On skin contact: | Immediately cool the skin by rinsing with cold water after contact with hot material. Wash off immediately with soap and plenty of water. Consult a physician. |
| On contact with eyes: | 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. |
| On ingestion: | No hazards which require special first aid measures. |
| Precautions: | Processing vapors inhalation may be irritating to the respiratory tract. If symptoms are experienced remove victim from the source of contamination or move victim to fresh air and obtain medical advice. |

5. FIRE-FIGHTING MEASURES

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| Autoignition Temperature: | No information available |
| Explosive Limits | |
| upper: | Not determined |
| lower: | Not determined |
| Suitable Extinguishing Media: | Use dry chemical, CO2, water spray or "alcohol" foam. |
| Unsuitable Extinguishing Media for Safety Reasons: | Do not use a solid water stream as it may scatter and spread fire. |
| Hazards from Combustion Products: | Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments, nitrogen oxides, hydrogen cyanide. |
| Special Protective Equipment for Firefighters: | Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products |
| Specific Hazards: | Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors. |

6. ACCIDENTAL RELEASE MEASURES

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| Clean up: | Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air. |
| Personal Precautions: | See section 8. |
| Environmental Precautions: | Do not flush into surface water or sanitary sewer system. Material should not be released into the environment. |

7. HANDLING AND STORAGE

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| Handling: | Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed. |
| Storage: | Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry and well-ventilated place. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No components with information, unless noted below

| Chemical Name | US OSHA PEL (8 Hr) | ACGIH | Canada - Alberta (8 Hr) | Mexico OEL Data | SABIC Recom'd. (8 Hr)* |
|--------------------------|--------------------|---|---|---|------------------------|
| FIBERGLASS 65997-17-3 | No Information | Inhalable fraction - TWA: 5 mg/m ³ ; Notations: Not Classifiable as a Human Carcinogen ; Crit Eff: Upper respiratory tract irritation ~cr~Respirable fibers - TWA: 1 f/cc ; Notations: Not Classifiable as a Human Carcinogen Respirable fibers - Crit Eff: Upp | OEL_8 hr: 1 f/cc OEL_Ceiling: 1 f/cc | LMPE-PPT: 10 mg/m ³ polvo | No Information |

**SABIC Recommended Exposure Limits have been established for certain chemicals.*

Engineering Measures to Reduce Exposure:

In the case of hazardous fumes, wear self-contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. Handle in accordance with good industrial hygiene and safety practice for diagnostics. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Hand Protection:

Protective gloves should be worn

Eye Protection:

Safety glasses with side-shields or chemical goggles. In addition, use full-face shield when cleaning processing vapor condensates from hood, ducts, and other surfaces.

Respiratory Protection:

When using this product at elevated temperatures, implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid, gases, and particulate matter) if processing vapors are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.

Body Protection:

Long sleeved clothing

Hygiene Measures:

When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|--------------------------------------|--|
| Physical State: | Solid |
| Appearance: | Pellets |
| Color: | Same as color code |
| Odor: | None or slight |
| Melting point/range: | This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures. |
| Autoignition Temperature: | No information available |
| Vapor Pressure: | Negligible |
| Water Solubility: | Insoluble |
| Evaporation Rate: | Negligible |
| Specific gravity: | >1; (water = 1) |
| VOC content (%): | Negligible |
| Explosive Limits | |
| upper: | Not determined |
| lower: | Not determined |

10. STABILITY AND REACTIVITY

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| Stability: | Stable under ambient conditions. Hazardous polymerization does not occur. |
| Conditions to Avoid: | To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous. Do not exceed melt temperature recommendations in product literature. Purgings of hot material should be collected in small, flat, thin shapes and quenched with water to allow for rapid cooling. Do not allow product to remain in barrel at elevated temperatures for extended periods of time. |
| Hazardous Decomposition Products: | Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates, other substituted hydrocarbons. |
| Incompatible Products: | Strong acids, strong oxidizing agents |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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| LD50/oral/rat: | >5000 mg/kg |
| LD50/dermal/rabbit: | >2000 mg/kg |
| Inhalation: | Irritating to respiratory system; avoid inhalation of dusts. |
| Eye Contact: | Resin particles, like other inert materials, are mechanically irritating to eyes. |
| Skin Contact: | Contact causes skin irritation. |
| Ingestion: | Pellet ingestion unlikely due to physical form. |
| Chronic Toxicity: | No information available |
| Subchronic Toxicity: | No information available |
| Primary Irritation: | Skin irritation. |
| IARC: | Not listed |
| OSHA: | Not regulated |
| NTP: | Not tested |
| Remarks: | The toxicological data has been taken from products of similar composition. |
| Special Studies: | Fibrous Glass: The International Agency for Research on Cancer (IARC) has determined special-purpose fibrous glass to be a possible human carcinogen (class 2B) based on evidence in experimental animals. Chronic exposure of rats by inhalation to high levels of E-glass fiber resulted in significant increases in lung tumors and mesotheliomas. |

12. ECOLOGICAL INFORMATION

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| Ecotoxicity Effects: | Do not flush into surface water or sanitary sewer system. |
| Other information: | Ecological damages are not known or expected under normal use. |

13. DISPOSAL CONSIDERATIONS

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| Waste Disposal: | Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification. |
|------------------------|---|

14. TRANSPORT INFORMATION

Transport Classification:

Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.

DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR

MEXICO

CANADA/TDG

15. REGULATORY INFORMATION

International Inventories:

| | |
|--------------------------------|------------|
| TSCA (USA): | Listed |
| DSL (Canada): | Not listed |
| EINECS/ELINCS (Europe): | Not listed |
| ENCS (Japan): | Listed |
| IECSC (China): | Listed |
| KECL (Korea): | Listed |
| PICCS (Philippines): | Not listed |
| AICS (Australia): | Not listed |
| NZIoC (New Zealand): | Not listed |

Other Inventory Information:

A "Listed" 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 is restricted from import or manufacture into that country/region. Articles are exempt from registration and are therefore not listed on the national chemical inventories.

SVHC (REACH Regulation (EC) No 1907/2006 and 453/2010, as amended):

This product does not intentionally contain SVHC chemicals except as noted below. Incidental amounts of impurities, if present, would be below the threshold limit of 0.1% by weight.

SARA (313) Title III of the 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 (311, 312) hazard class:

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

Canada - WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR. Unless noted below, this product is non-controlled. Some classifications may not apply to the entire product.

California Proposition 65:

Components in this product known to the State of California to cause cancer and/or reproductive effects, are listed below:

| Chemical Name | Weight % | California Proposition 65: |
|--------------------------|----------|---|
| FIBERGLASS 65997-17-3 | 10 - 30 | Listed: July 1, 1990 Carcinogenic. (airborne, unbound particles of respirable size) |

RoHS EU Directive 2002/95/EC (and its amendments and directive 2011/65/EU):

The subject product is in compliance with EU RoHS Directive 2002/95/EC (and its amendments and directive 2011/65/EU). All below chemicals are not employed in the manufacture of the product: a.Cadmium and its compounds, b.Lead and its compounds, c.Mercury and its compounds, d.Hexavalent chromium compounds, e.Polybrominated biphenyls (PBBs), f.Polybrominated diphenyl ethers (PBDEs including Deca-BDE). The trace levels of heavy metals may be present as impurities within threshold limits (<0.1% for Pb, Hg, Cr VI, and <0.01% for Cd). We are disclosing this information, to the best of our knowledge, based upon data from our raw material manufacturers.

16. OTHER INFORMATION

Brands marked with ® or ™ are trademarks of SABIC or affiliates

SDS Scope:

USA: Conforms to 29 CFR 1910.1200 (OSHA Hazard Communication Standard)

This document is also applicable in other countries and regions.

Prepared by: Product Stewardship & Toxicology

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End of Safety Data Sheet