Mitsubishi Chemical Advanced Materials
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SAFETY DATA SHEET

ID# SDS-2100
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Section 1: Identification

Product Identifier: Sultron™ PSU

Manufacturer:
Mitsubishi Chemical Advanced Materials, Inc.
2120 Fairmont Ave.
Reading, PA 19605
(610) 320-6600

In case of an emergency, please call Chemtrec 1-800-424-9300.

Recommended Use: Engineering thermoplastic stock shape

Section 2: Hazard Identification

GHS – Classifications

Classification: None

Signal Word: None

Pictograms and Symbols: None

Hazard Statements: None

Precautionary Statements: None

Section 3: Composition/Information on Ingredients

This is a polymeric material. All constituents are encapsulated within the polymer system and therefore unlikely to result in exposure under normal conditions of processing and handling.

Chemical Name	CAS No.	Weight %
Polysulfone	25154-01-2	90-99
Titanium dioxide	13463-67-7	0-10
Carbon Black	1333-86-6	0-1

Section 4: First-Aid Measures

Eyes: Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.
Skin: No health risks concerning skin contact at room temperature. Wash with soap and water. If molten material comes in contact with the skin, cool under running water. Do not attempt to remove the molten material from the skin. Get medical attention immediately.

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Inhalation: If fumes from overheating are inhaled, remove to fresh air. Seek medical attention if respiratory symptoms occur or breathing becomes difficult.
Ingestion: Rinse the victim's mouth with plenty of water. Do not induce vomiting. Seek medical attention.

Section 5: Fire-Fighting Measures

Fire-fighters should protect themselves from decomposition and combustion products by using a full-face self-contained breathing apparatus and impervious protective clothing. Extinguish fires with water spray and foam. Carbon dioxide and dry chemical media are not recommended because their lack of cooling capacity may permit re-ignition.

Hazardous gases/vapors produced in fire are: carbon monoxide, sulphur oxides and Hydrocarbons.

Dust is flammable and explosive when finely divided and suspended in air.

Section 6: Accidental Release Measures

If a spill occurs, stop the leak at the source and sweep up for disposal. Do not flush to sewers or waterways.

Section 7: Handling and Storage

Precautions for Safe Handling
Personal hygiene such as washing the hands and face immediately after working with this material and before eating is recommended.

Dust may form explosive mixtures with air. Avoid dust formation and control ignition sources. Polyolefin dust particles suspended in air are combustible and may be explosive. Keep away from heat, sparks, flame, and other ignition sources. Prevent dust accumulations and dust clouds. Employ ground, bonding, venting, and explosive relief provisions in accordance with accepted engineering practices and NFPA provisions in any process capable of generating dust and/or static electricity. Explosion hazards apply only to dusts, not granular forms of this product.

The handling of powder in both loading and unloading operations, as well as fabrication, may cause dust to be formed and necessary precautions for personal protection should be used. As with all finely divided materials precautions should be taken to avoid inhalation and eye contact.

If in dust form, transfer from storage with a minimum amount of dusting. Ground all transfer, blending, and dust collecting equipment to prevent static sparks in accordance with NFPA 70 "National Electric Code." Review and comply with all relevant NFPA provisions, including but not limited to NFPA 484 and NFPA 654 related to combustible dust hazards. Remove all ignition sources from material handling, transfer, and processing areas where dust may be present. Local exhaust ventilation should be provided in work area.

Precautions for Safe Storage
Store in a sprinkler protected warehouse. Since products are organic, they will burn with a hot flame if ignited. Avoid contact with ignition sources such as open flames. Keep a fire extinguisher near if welding is done in the area of organic products. If a heat source is present, keep the area well ventilated.

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Section 8: Exposure Controls/Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Particulates	10 mg/m^3	15 mg/m^3 – Total 5 mg/m^3 – Respirable	Not Determined
Titanium dioxide	10 mg/m^3	15 mg/m^3 – Total 5 mg/m^3 – Respirable	Not Determined
Carbon Black	3.5 mg/m^3	3.5 mg/m^3	3.5 mg/m^3

Engineering Measures:
Provide local exhaust ventilation to keep airborne particulate concentrations below OELs.

Personal Protective Equipment: Eyes/Face
Safety glasses with side shields.

Personal Protective Equipment: Skin
When handling molten material, protective clothing such as long sleeves or laboratory coat should be worn. Use heat-resistant gloves, boots, and face protection.

Personal Protective Equipment: Respiratory
If levels are above published OELs, then a NIOSH approved respirator.

Good industrial hygiene practice should be followed which includes preventing eye contact, minimizing skin contact, and minimizing inhalation of dust, vapors or mist.

Section 9: Physical and Chemical Properties

Appearance and Odor	Solid in plate form with essentially no odor
Odor Threshold	No Information Available
Specific Gravity (Relative Density)	>1
Solubility in Water	Negligible
VOC Content (%)	Negligible
pH	No data available
Melting Point/Freezing Point	374°F (Softening point)
Vapor Pressure	No data available
Vapor Density	No data available
Evaporation Rate	No data available
Boiling Point	No data available
Flammability	Combustible
Flash Point	1022°F
Explosion Data	LEL – No data available UEL – No data available
Auto ignition Point	No data available
Partition Coefficient: n-octanol/water	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity:
None known

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Chemical Stability:
Material is stable under normal industrial conditions and is not susceptible to hazardous polymerization.

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.

Incompatibility:
Polymeric resins.

Hazardous Decomposition Products:
At elevated temperatures carbon monoxide, sulphur oxides and Hydrocarbons will occur.

Section 11: Toxicological Information

Signs and Symptoms of Overexposure: Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation signs and symptoms may include a burning sensation, redness and swelling. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

Aggravated Medical: None.

Acute Effects: Non-toxic**.**
Skin Corrosion/Irritation: Not irritating to the skin.
Serious Eye Damage/Irritation: Particulates can be mechanically irritating to the eyes.
Ingestion: None.
Inhalation: Inhalation of particulates may produce respiratory tract irritation.
Respiratory or Skin Sensitization: Not expected to be a sensitizer.

Chronic Effects:

Germ Cell Mutagenicity: Not expected to be a germ cell mutagen.
Carcinogenicity: Not classifiable as carcinogen to humans (group 3 IARC).
Reproductive Toxicity: There aren't known reproductive toxicity effects.
STOT-single Exposure: At dust form, may cause respiratory irritation with cough and sneezing.
STOT –multiple Exposure: There are not known repeated exposure effects.
Aspiration Hazard: No data available. Not expected to be an aspiration hazard.

Primary Route of Entry: Inhalation of particulates.

Section 12: Ecological Information

Ecotoxicity:
There aren't known ecological toxicity values.
Persistence and degradability:
It's expected high persistence and slow degradability.

Bioaccumulative Potential:
It's expected moderate to high bioaccumulative potential.

Mobility in Soil:
No data available

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Other Adverse Effects:
No data available

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)

Section 13: Disposal Considerations

According to the **'European Waste Catalogue and Hazardous Waste List'**, uncontaminated waste from the products is not classified as hazardous. The following six-digit codes can be used:

07 02 13	waste plastic from the manufacture, formulation, supply and use of plastics
12 01 05	plastic shavings and turnings
16 01 19	plastic, from end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance
17 02 03	plastic construction and demolition wastes
20 01 39	plastics from municipal wastes (household waste and similar commercial, industrial and institutional wastes)

Waste disposal: When recycling is not feasible, waste disposal by incineration or landfill can be applied. Disposal methods shall conform to local or other government regulations.

Section 14: Transportation Information

US Department of Transportation Classification (49CFR)

Not classified as hazardous for transport.

Section 15: Regulatory Information

SARA Section 302 & 304:
No chemicals

SARA Section 313:
The following component is subject to reporting levels established by SARA Title III, Section 313:

- None

TSCA:
All components of this product are either listed or are exempt on the TSCA inventory.

Section 16: Other Information

Label Information

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