

# Safety Data Sheet

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## Section 1. Company and Product Identification

**PRODUCT NAME:** RTP 1400 R-5100 S-25839 BRIGHT WHITE

**RECOMMENDED USE:** Injection Molding or Extrusion Compound

**RESTRICTIONS ON USE:** For industrial processing only. MEDICAL APPLICATION CAUTION: RTP Company does not provide materials for use in any articles to be permanently implanted in the human body or to be permanently in contact with internal bodily fluids or tissues. Unless otherwise expressly agreed to in writing, RTP Company does not provide materials for use in articles to be briefly or temporarily implanted in the human body or to be in contact with internal bodily fluids or tissues.

**SUPPLIED BY:**  
RTP Singapore Pte Ltd..  
3 Tuas South Street 3  
Jurong Industrial Estate  
Singapore 638045

RTP Company (Suzhou) Ltd.  
123 Ting Lan Lane  
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**Safety Data Sheet Coordinator:** [msds@rtpcompany.com](mailto:msds@rtpcompany.com)

**EMERGENCY TELEPHONE:** Singapore +65 6863-6580  
China +86 512 6283 8383

## Section 2. Hazards Identification

### GHS Classification

Not classified

### Hazard Pictogram(s)

None

### Signal Word

No Signal Word

### Other hazards which do not result in classification

**US OSHA HAZARD CATEGORY:** Warning. May form combustible dust concentrations in air if small particles are generated during further processing, handling, machining, or by other means. Product, as shipped, is not a combustible dust. To reduce the risk for dust explosion do not permit dust to accumulate. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard.

### Section 3. Composition/Information on ingredients

**CHEMICAL CHARACTERIZATION:** Mixture. Polyphenylsulfone. PPSU.

<u>Chemical Name</u>	<u>SVHC</u>	<u>EC-No.</u>	<u>CAS-No.</u>	<u>Wt. %</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
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No hazardous items exist

### Section 4. First-aid Measures

#### DESCRIPTION OF FIRST AID MEASURES

**FIRST AID - INHALATION:** Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician if symptoms persist or exposure was severe.

**FIRST AID - SKIN CONTACT:** For thermal burns, immediately flush with cold water. Do not attempt to remove polymer from skin. Obtain medical attention. Wash off with soap and water.

**FIRST AID - EYE CONTACT:** If eye irritation persists, consult a specialist. Rinse with plenty of water.

**FIRST AID - INGESTION:** Clean mouth with water and drink plenty of water afterwards. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:** No Information

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:** No Information

### Section 5. Fire-fighting Measures

**EXTINGUISHING MEDIA:** Dry Chemical, Water Fog, Carbon Dioxide, Alcohol Foam

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:** Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard. Every effort should be made to prevent suspension, concentration or accumulation of fines or dusts in, or around, material handling systems. Product, as shipped, is not a combustible dust. To reduce the risk for dust explosion, do not permit dust to accumulate. Minimize dust levels by vacuuming rather than cleaning by the use of compressed air. Toxic and irritating fumes may be given off during burning.

**ADVICE FOR FIREFIGHTERS:** Dry chemical and CO<sub>2</sub> are not generally recommended for large fires due to their lack of cooling capacity which may allow re-ignition. Do not use water jet. Persons exposed to products of combustion should wear an approved self contained breathing apparatus and full protective equipment.

### Section 6. Accidental Release Measures

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** No Information

**ENVIRONMENTAL PRECAUTIONS:** Do not discharge into sewer or waterways.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:** Spilled pellets may cause a slipping hazard. Sweep area as needed. Wear an approved dust respirator if necessary. (NIOSH, or EN143/EN149).

### Section 7. Handling and Storage

**PRECAUTIONS FOR SAFE HANDLING:** Product, as shipped, is not a combustible dust. Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard. Every effort should be made to prevent suspension, concentration

or accumulation of fines or dusts in, or around, material handling systems. Minimize dust levels by vacuuming rather than cleaning by the use of compressed air. Ground all material handling and transfer equipment to dissipate build-up of static electricity. Proper purging and shut down procedures should be followed to avoid overheating of this compound.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:** Store in a dry, sprinkler equipped warehouse.

## Section 8. Exposure Controls/Personal Protection

### Ingredients with Occupational Exposure Limits

No hazardous items exist

## EXPOSURE CONTROLS

**ENGINEERING CONTROLS:** Use local exhaust to completely remove vapors and fumes generated during melt processing. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

**RESPIRATORY PROTECTION:** An approved respirator is recommended for protection against processing fumes, or from dust generated from grinding, sanding, or sawing operations on molded parts. (NIOSH or EN143/149/14387).

**SKIN PROTECTION:** Canvas, cotton, or rubber gloves are recommended. Use heat resistant gloves when handling hot material.

**EYE PROTECTION:** Safety glasses with side shields are recommended.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**HYGIENIC PRACTICES:** Eating, drinking and smoking in immediate work area should be prohibited.

## Section 9. Physical and Chemical Properties

Appearance:	Granular/Pellet
Physical State:	Solid
Odor:	No Information available
Odor Threshold:	No Information available
pH:	Not applicable
Freeze Point, °C:	No Information available
Boiling Range, °C:	Not Applicable
Flash Point, °C:	No Information available
Evaporation Rate:	Not applicable
Combustibility:	No Information available
Explosive Limits, %:	No Information available
Vapor Pressure, mmHg:	Not applicable
Vapor Density:	Not applicable
Density, g/cm3:	1.3
Solubility in Water:	No Information available
Partition Coefficient, n-octanol/water:	Not applicable

**Auto-Ignition Temperature, °C:** No Information available  
**Decomposition Temperature, °C:** No Information available  
**Viscosity:** Not applicable

## Section 10. Stability and Reactivity

**REACTIVITY:** No Information

**CHEMICAL STABILITY:** Stable at recommended storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Avoid prolonged temperatures above 398 °C (750 °F).

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide. Sulfur oxides, hydrocarbons.

## Section 11. Toxicological Information

### INFORMATION ON TOXICOLOGICAL EFFECTS

#### CARCINOGENICITY:

None of the ingredients of this product are listed as a carcinogen by IARC, NTP, OSHA, MAK, or GHS.

**SKIN CORROSION / IRRITATION:** No Information

**SERIOUS EYE DAMAGE / IRRITATION:** Direct eye contact may cause irritation. Processing fumes may cause irritation.

**RESPIRATORY OR SKIN SENSITIZATION:** No Information

**GERM CELL MUTAGENICITY:** No Information

**REPRODUCTIVE TOXICITY:** No Information

**SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:** No Information

**SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:** No Information

**ASPIRATION HAZARD:** No Information

### Practical Experiences

**EFFECT OF OVEREXPOSURE - INHALATION:** Processing fumes may cause irritation to the respiratory tract.

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Pellets are not likely to cause irritation. Contact with molten material may cause thermal burns. Processing fumes may cause irritation.

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** No Information

**EFFECT OF OVEREXPOSURE - INGESTION:** Not a probable route of exposure. Ingestion may cause gastric disturbances.

## Section 12. Ecological Information

**ECOLOGICAL INFORMATION:** No specific ecological information is available. This material is considered to be non-biodegradable.

**TOXICITY:** No Information

**PERSISTANCE AND DEGRADABILITY:** No Information

**BIOACCUMULATIVE POTENTIAL:** No Information

**MOBILITY IN SOIL:** No Information

**OTHER ADVERSE EFFECTS:** No Information

### Section 13. Disposal Information

**WASTE TREATMENT METHODS:** The pellets, regrind, and purge of this material are non-hazardous and may be discarded in accordance with federal, state, and local regulations.

### Section 14. Transport Information

#### Road Transport

<b>UN Number:</b>	No Information
<b>UN Proper Shipping Name:</b>	No Information
<b>Transport Hazard Class:</b>	Not Regulated
<b>Packing Group:</b>	No Information
<b>ADR/RID Class:</b>	Not Regulated

#### Sea Transport

<b>IMDG Class:</b>	Not Regulated
<b>Marine Pollutant</b>	No Information

#### Air Transport

<b>ICAO/IATA Class:</b>	Not Regulated
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**ENVIRONMENTAL HAZARDS:** No Information

**SPECIAL TRANSPORT PRECAUTIONS:** No Information

### Section 15. Regulatory Information

#### U.S. Federal Regulations:

##### TSCA Inventory:

All ingredients are listed or exempt from listing on the TSCA 8b inventory.

#### International Regulations: As follows -

##### CANADIAN WHMIS 2015:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

##### EU REACH - SVHC (Substances of Very High Concern)

This product contains the following chemicals at a concentration above 0.1% that are on the Candidate List of Substances of Very High Concern (SVHC) published by the European Chemicals Agency (ECHA).

None known.

## Section 16. Other Information

**Revision Date:** 29 Oct 2016  
**Supersedes Date:** New MSDS  
**Datasheet produced by:** Regulatory Department  
**Reason for revision:** No Information

### HMIS Ratings:

Health:	0
Flammability:	1
Reactivity:	0
Personal Protection:	N.I.

### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

Not applicable

### Icons for GHS Pictograms shown in Section 3 describing each ingredient:

Not applicable

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

It is believed that the information contained herein is accurate as of the date hereof. HOWEVER, NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREIN AS TO THE INFORMATION PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The health and safety precautions contained herein may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Nothing contained herein shall be construed as a license for the use of any product in a manner that would infringe existing patents.

# Safety Data Sheet

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## Section 1. Company and Product Identification

**PRODUCT NAME:** RTP 1400 R-5100 S-85245 FROST GREY

**RECOMMENDED USE:** Injection Molding or Extrusion Compound

**RESTRICTIONS ON USE:** For industrial processing only. MEDICAL APPLICATION CAUTION: RTP Company does not provide materials for use in any articles to be permanently implanted in the human body or to be permanently in contact with internal bodily fluids or tissues. Unless otherwise expressly agreed to in writing, RTP Company does not provide materials for use in articles to be briefly or temporarily implanted in the human body or to be in contact with internal bodily fluids or tissues.

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## Section 2. Hazards Identification

### GHS Classification

Not classified

### Hazard Pictogram(s)

None

### Signal Word

No Signal Word

### Other hazards which do not result in classification

**US OSHA HAZARD CATEGORY:** Warning. May form combustible dust concentrations in air if small particles are generated during further processing, handling, machining, or by other means. Product, as shipped, is not a combustible dust. To reduce the risk for dust explosion do not permit dust to accumulate. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard.

### Section 3. Composition/Information on ingredients

**CHEMICAL CHARACTERIZATION:** Mixture. Polyphenylsulfone. PPSU.

<u>Chemical Name</u>	<u>SVHC</u>	<u>EC-No.</u>	<u>CAS-No.</u>	<u>Wt. %</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
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No hazardous items exist

### Section 4. First-aid Measures

#### DESCRIPTION OF FIRST AID MEASURES

**FIRST AID - INHALATION:** Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician if symptoms persist or exposure was severe.

**FIRST AID - SKIN CONTACT:** For thermal burns, immediately flush with cold water. Do not attempt to remove polymer from skin. Obtain medical attention. Wash off with soap and water.

**FIRST AID - EYE CONTACT:** If eye irritation persists, consult a specialist. Rinse with plenty of water.

**FIRST AID - INGESTION:** Clean mouth with water and drink plenty of water afterwards. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:** No Information

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:** No Information

### Section 5. Fire-fighting Measures

**EXTINGUISHING MEDIA:** Dry Chemical, Water Fog, Carbon Dioxide, Alcohol Foam

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:** Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard. Every effort should be made to prevent suspension, concentration or accumulation of fines or dusts in, or around, material handling systems. Product, as shipped, is not a combustible dust. To reduce the risk for dust explosion, do not permit dust to accumulate. Minimize dust levels by vacuuming rather than cleaning by the use of compressed air. Toxic and irritating fumes may be given off during burning.

**ADVICE FOR FIREFIGHTERS:** Dry chemical and CO<sub>2</sub> are not generally recommended for large fires due to their lack of cooling capacity which may allow re-ignition. Do not use water jet. Persons exposed to products of combustion should wear an approved self contained breathing apparatus and full protective equipment.

### Section 6. Accidental Release Measures

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** No Information

**ENVIRONMENTAL PRECAUTIONS:** Do not discharge into sewer or waterways.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:** Spilled pellets may cause a slipping hazard. Sweep area as needed. Wear an approved dust respirator if necessary. (NIOSH, or EN143/EN149).

### Section 7. Handling and Storage

**PRECAUTIONS FOR SAFE HANDLING:** Product, as shipped, is not a combustible dust. Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard. Every effort should be made to prevent suspension, concentration

or accumulation of fines or dusts in, or around, material handling systems. Minimize dust levels by vacuuming rather than cleaning by the use of compressed air. Ground all material handling and transfer equipment to dissipate build-up of static electricity. Proper purging and shut down procedures should be followed to avoid overheating of this compound.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:** Store in a dry, sprinkler equipped warehouse.

## Section 8. Exposure Controls/Personal Protection

### Ingredients with Occupational Exposure Limits

No hazardous items exist

## EXPOSURE CONTROLS

**ENGINEERING CONTROLS:** Use local exhaust to completely remove vapors and fumes generated during melt processing. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

**RESPIRATORY PROTECTION:** An approved respirator is recommended for protection against processing fumes, or from dust generated from grinding, sanding, or sawing operations on molded parts. (NIOSH or EN143/149/14387).

**SKIN PROTECTION:** Canvas, cotton, or rubber gloves are recommended. Use heat resistant gloves when handling hot material.

**EYE PROTECTION:** Safety glasses with side shields are recommended.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**HYGIENIC PRACTICES:** Eating, drinking and smoking in immediate work area should be prohibited.

## Section 9. Physical and Chemical Properties

Appearance:	Granular/Pellet
Physical State:	Solid
Odor:	No Information available
Odor Threshold:	No Information available
pH:	Not applicable
Freeze Point, °C:	No Information available
Boiling Range, °C:	Not Applicable
Flash Point, °C:	No Information available
Evaporation Rate:	Not applicable
Combustibility:	No Information available
Explosive Limits, %:	No Information available
Vapor Pressure, mmHg:	Not applicable
Vapor Density:	Not applicable
Density, g/cm3:	1.3
Solubility in Water:	No Information available
Partition Coefficient, n-octanol/water:	Not applicable

**Auto-Ignition Temperature, °C:** No Information available  
**Decomposition Temperature, °C:** No Information available  
**Viscosity:** Not applicable

## Section 10. Stability and Reactivity

**REACTIVITY:** No Information

**CHEMICAL STABILITY:** Stable at recommended storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Avoid prolonged temperatures above 398 °C (750 °F).

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide. Sulfur oxides, hydrocarbons.

## Section 11. Toxicological Information

### INFORMATION ON TOXICOLOGICAL EFFECTS

#### CARCINOGENICITY:

None of the ingredients of this product are listed as a carcinogen by IARC, NTP, OSHA, MAK, or GHS.

**SKIN CORROSION / IRRITATION:** No Information

**SERIOUS EYE DAMAGE / IRRITATION:** Direct eye contact may cause irritation. Processing fumes may cause irritation.

**RESPIRATORY OR SKIN SENSITIZATION:** No Information

**GERM CELL MUTAGENICITY:** No Information

**REPRODUCTIVE TOXICITY:** No Information

**SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:** No Information

**SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:** No Information

**ASPIRATION HAZARD:** No Information

### Practical Experiences

**EFFECT OF OVEREXPOSURE - INHALATION:** Processing fumes may cause irritation to the respiratory tract.

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Pellets are not likely to cause irritation. Contact with molten material may cause thermal burns. Processing fumes may cause irritation.

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** No Information

**EFFECT OF OVEREXPOSURE - INGESTION:** Not a probable route of exposure. Ingestion may cause gastric disturbances.

## Section 12. Ecological Information

**ECOLOGICAL INFORMATION:** No specific ecological information is available. This material is considered to be non-biodegradable.

**TOXICITY:** No Information

**PERSISTANCE AND DEGRADABILITY:** No Information

**BIOACCUMULATIVE POTENTIAL:** No Information

**MOBILITY IN SOIL:** No Information

**OTHER ADVERSE EFFECTS:** No Information

### Section 13. Disposal Information

**WASTE TREATMENT METHODS:** The pellets, regrind, and purge of this material are non-hazardous and may be discarded in accordance with federal, state, and local regulations.

### Section 14. Transport Information

#### Road Transport

<b>UN Number:</b>	No Information
<b>UN Proper Shipping Name:</b>	No Information
<b>Transport Hazard Class:</b>	Not Regulated
<b>Packing Group:</b>	No Information
<b>ADR/RID Class:</b>	Not Regulated

#### Sea Transport

<b>IMDG/GGVSee Class:</b>	Not Regulated
<b>Marine Pollutant</b>	No Information

#### Air Transport

<b>ICAO/IATA Class:</b>	Not Regulated
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**ENVIRONMENTAL HAZARDS:** No Information

**SPECIAL TRANSPORT PRECAUTIONS:** No Information

### Section 15. Regulatory Information

#### U.S. Federal Regulations:

##### TSCA Inventory:

All ingredients are listed or exempt from listing on the TSCA 8b inventory.

#### International Regulations: As follows -

##### CANADIAN WHMIS 2015:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

##### EU REACH - SVHC (Substances of Very High Concern)

This product contains the following chemicals at a concentration above 0.1% that are on the Candidate List of Substances of Very High Concern (SVHC) published by the European Chemicals Agency (ECHA).

None known.