

SECTION 1: Identification of the substance/preparation and of the company

1.1 Product identifier Material Safety Data Sheet valid from May 13 2019
Trade name: PrimaSelect PPSU

1.2 Relevant identified uses of the substance or mixture and uses advised against

Chemical product name PolyPhenylSulfone
General use: Medical, aerospace, automotive, chemische process industrie, etc
Chemical type High performance thermoplastic

1.3 Details of the supplier of the safety data sheet

Company name: Prima Printer Nordic AB
Street/POB-No.: Kantyxegatan 25 F
Postal Code, city: SE 213 76 Malmö, SWEDEN
WWW: www.primacreator.com
E-mail: info@primacreator.com
Telephone: + 46 40 684 97 90

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION) (EC) No 1272/2008

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

2.2 Emergency Overview

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;
Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

2.3 Label elements

No labelling

2.4 Other hazards

- Hazardous decomposition products formed under fire conditions.
- Product dust may be irritating to eyes, skin and respiratory system.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Substance name: Polyphenylsulfone CAS-No.: 25608-64-4 / EC-No.: - / Index-No.: -	Concentration: >= 99%
--	---------------------------------

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	Remove to fresh air. If symptoms persist, call physician.
In case of skin contact	Cool skin rapidly with cold water after contact with hot polymer. Do not peel polymer from the skin. Obtain medical attention.
In case of eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Flush eyes with running water for several minutes, while keeping the eyelids wide open. If eye irritation persists, consult a specialist.
If swallowed	Never give anything by mouth to an unconscious person. If a large amount is swallowed, get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Mechanical irritation from the particulates generated by the product. Thermal decomposition can lead to release of hazardous gases and vapors
Skin contact	Mechanical irritation from the particulates generated by the product.
Eye contact	Mechanical irritation from the particulates generated by the product.
Ingestion	Low ingestion hazard.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Powder, foam, water, water spray, carbon dioxide (CO₂)

Unsuitable extinguishing media None

5.2 Special hazards arising from the substance or mixture

Combustible material. In a fire, the polymer melts, producing droplets which may propagate fire. Once started, a fire will tend to self extinguish (see section 9). Risk of dust explosion. Heating can release hazardous gases.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Fire fighters must wear fire resistant personnel protective equipment. Wear chemical resistant oversuit. Avoid dust formation.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep in properly labelled containers. Keep in suitable, closed containers for disposal. Treat recovered material as described in the section „Disposal considerations“.

6.4 Reference to other sections**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Take measures to prevent the build up of electrostatic charge. Ensure all equipment is electrically grounded before beginning transfer operations. Use only equipment and materials which are compatible with the product. To avoid thermal decomposition, do not overheat.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep container closed. Keep away from heat and sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. To avoid thermal decomposition, do not overheat. Avoid dust formation. Refer to protective measures listed in sections 7 and 8. Do not smoke.

7.3 Specific end use(s)

For further information, please contact: Supplier

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limit values Particles not otherwise specified (PNOS)

US. ACGIH Threshold Limit Values 2007 time weighted average = 3 mg/m³
Remarks: as respirable particles

US. ACGIH Threshold Limit Values 2010 time weighted average = 10 mg/m³
Remarks: Inhalable fraction

8.2 Exposure controls

Appropriate engineering controls Provide local ventilation appropriate to the product decomposition risk (see section 10). Provide appropriate exhaust ventilation at places where dust is formed. Refer to protective measures listed in sections 7 and 8. Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment

Eye protection Safety glasses with side-shields. Dust proof goggles, if dusty.

Hand protection When handling hot material, use heat resistant gloves.

Skin and body protection Long sleeved clothing

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use only respiratory protection that conforms to international/national standards. In case of dust clouds/fog/fumes, dust mask type P1. In case of decomposition (see section 10), face mask with combined type B-P2 cartridge.

Hygiene measures When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Information on basic physical and chemical properties

9.1 General information

Appearance	Filament
Colour	Amber, white
Odour	odourless

9.2 Important health safety and environmental information

pH	Not applicable
pKa	No data
Melting point/freezing point	220 °C, Softening point
Boiling point/boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	No data
Flammability (solid,gas)	No data
Flammability	The product is not flammable
Explosive properties	Risk of dust explosion
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	Not applicable
Vapour density	Not applicable
Density	No data
Relative density	No data available
Bulk density	No data
Solubilities	Negligible, water
Solubility/qualitative	No data
Partition coefficient: octanol/water	Not applicable
Auto-ignition temperature	No data
Decomposition temperature	430 °C, extended period of exposure (ca 1 hour)
Viscosity	No data
Oxidizing properties	No data

9.3 Other information

Remakers	No data
----------	---------

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reaction known under conditions of normal use.

10.2 Chemical stability Stable under normal conditions. Hazardous
Polymerisation/Polymerization: no

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Heat, flames and sparks. To avoid thermal decomposition, do not overheat. Avoid dust formation. The normal temperature for processing this resin exceeds the decomposition and/or ignition temperature of some other polymeric resins, such as polyacetal, polyvinyl chloride (PVC), polypropylene, etc. If PVC or any other resin with a decomposition temperature below 371°C / 700°F is molded or handled in your equipment, these materials can rapidly decompose and/or react with this resin at the temperatures used to process this resin. Inadvertent contamination of this resin with these materials from the material handling system or other equipment can result in a rapid, possibly violent release of decomposition fumes, when the contaminated material is brought to processing temperature. To avoid, thoroughly clean molding and other processing equipment prior to changeover and prevent cross contamination of material handling systems.

10.5 Incompatible materials Polymeric resins

10.6 Hazardous decomposition products Carbon monoxide, Sulphur oxides, Hydrocarbons, The release of other hazardous decomposition products is possible.

SECTION 11: Toxicological information

11.1 Acute toxicity

Acute oral toxicity No data available
Acute dermal toxicity No data available
Acute inhalation toxicity No data available

11.2 Skin corrosion/irritation no data available

11.3 Serious eye damage/eye irritation no data available

11.4 Sensitisation no data available

11.5 Mutagenicity no data available

11.6 Carcinogenicity no data available

11.7 Toxicity for reproduction no data available

11.8 Specific target organ toxicity - single exposure Remarks: no data available

11.9 Repeated dose toxicity no data available

11.10 Aspiration hazard no data available

11.11 Other information The product is biologically inert. Product dust may be irritating to eyes, skin and respiratory system. Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

SECTION 12: Ecological information

12.1 Toxicity No data available

12.2 Persistence and degradability

Abiotic degradation No data available

Biodegradation No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data available

12.5 Other adverse effects

Results of PBT and vPvB assessment No data available

12.6 Other adverse effects The product is biologically inert. Ingestion of solids may cause harm to wildlife due to intestinal mechanical blockage or starvation from false feeling of satiation.

SECTION 13: Disposal considerations

13.1 Waste treatment methods In accordance with local and national regulations. Refer to manufacturer/supplier for information on recovery/recycling. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Can be landfilled, when in compliance with local regulations.

13.2 Contaminated packaging Empty containers. Dispose of as unused product

SECTION 14: Transport information

14.1 International transport regulations

14.2 Sea (IMO/IMDG) Not regulated

14.3 Air (ICAO/IATA) Not regulated

14.4 European Road/Rail (ADR/RID) Not regulated

14.5 Inland waterway transport Not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, as amended.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended.
- European Waste Catalogue
- Waste codes should be assigned by the user based on the application for which the product was used.

15.2 Notification status

USA. Toxic Substances Control Act (TSCA)	Listed on inventory
EU list of existing chemical substances (EINECS)	In compliance with inventory
Australia. Inventory of Chemical Substances (AICS)	Listed on inventory
Japan. Inventory of Existing & New Chemical Substances (ENCS)	Listed on inventory
Korean Existing Chemicals List (ECL)	Listed on inventory
Philippine. Inventory of Chemicals and Chemical Substances (PICCS)	In compliance with inventory
Inventory of Existing Chemical Substances (China) (IECS)	Listed on inventory
Canada. Domestic Substances List (DSL)	Listed on inventory

15.3 Chemical safety assessment No data

SECTION 16: Other Informaton

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

