

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 Ultem 9085

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

Chemical product name Polyetherimide
General use: Medical, aerospace, automotive, chemical process industries, 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

Labelling (REGULATION) (EC) No 1272/2008

Not a hazardous substance or mixture.

2.4 Other hazards

PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Hazardous components

Product/Ingredient name	Titanium Dioxide PW6
Identifiers	13463-67-7
Concentration	>= 5 - < 10 %
Type	Pigment

Components which are considered potential hazards to health or the environment, if present above minimum concentrations, are listed above. Any concentration shown as a range is to protect confidentiality and/or is due to batch variation. Any non-hazardous components are being withheld as a trade secret. This product consists primarily of high molecular weight polymers which are not expected to be hazardous. Furthermore, any additives in this product are present within the polymer matrix and are not expected to be hazardous under recommended use conditions. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Thermal decomposition can lead to release of irritating gases and vapours. Move the victim to fresh air. Obtain medical attention.
If inhaled	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	After contact with skin, wash immediately with plenty of cold water. Wash off immediately with soap and plenty of water. Consult a physician. If skin irritation persists, call a physician.
In case of eye contact	Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.
If swallowed	Negligible or unlikely exposure pathways. If accidentally swallowed obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact	Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.
Inhalation	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.

Skin contact After contact with skin, wash immediately with plenty of cold water. Wash off immediately with soap and plenty of water. Consult a physician. If skin irritation persists, call a physician.

Ingestion Negligible or unlikely exposure pathways. If accidentally swallowed obtain immediate medical attention.

Over-exposure symptoms None known

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician No information available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Material is not sensitive to mechanical impact.

Hazardous combustion products Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments, hydrogen cyanide, nitrogen oxides. If present, certain hazardous additives can also liberate halogenated hydrocarbons.

5.3 Advice for firefighters

Special protective equipment for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Stay upwind/ keep distance from source.

Further information 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 vapours.

Explosive properties not applicable

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Take precautionary measures against static discharges.

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.
Do not create a powder cloud by using a brush or compressed air.

6.4 Reference to other sections For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe 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 the mixing and processing equipment must be earthed. Open containers only in well-ventilated area.

Hygiene measures Do not eat, drink or smole when using this product

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Keep tightly closed in a dry and cool place. Keep away from heat and sources of ignition. Residual monomer vapors can accumulate in the headspace of closed containers.

7.3 Specific uses

May be used to produce molded or extruded articles or as a component of other industrial products.
Manufacture of plastics products, including compounding and conversion.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Components Titanium Dioxide PW6

CAS-No. 13463-67-7

Value type (Form of exposure)

Control parameters

Reference SABIC OEL: Occupational Exposure Limits

Further information No information available

8.2 Exposure controls

Engineering measures Handle in accordance with good industrial hygiene and safety practice.
Provide appropriate exhaust ventilation at machinery.
Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.

Personal protective equipment

Eye protection Safety glasses with side-shields
Chemical resistant goggles must be worn.

Hand protection Wear protective gloves.

Skin and body protection Long sleeved clothing

Respiratory protection Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours.
If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.

Protective measures Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

Appearance Filament

Physical state Solid

Colour Grey

Odour None or slight

Odour Threshold No information available

pH No data available

Melting point/range This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.

Boiling point/boiling range Not determined

Upper explosion limit	Not determined
Lower explosion limit	Not determined
Vapour pressure	Negligible
Relative vapour density	Not determined
Relative density	>1
Density	Not determined
Bulk Density	500 kg/m ³
Water solubility	Insoluble
Solubility in other solvents	Not determined
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity, dynamic	Not applicable
Viscosity, kinematic	Not applicable

SECTION 10 Stability and reactivity

10.1 Reactivity	Stable under recommended storage conditions.
10.2 Chemical stability	Stable at normal ambient temperature and pressure. Hazardous polymerisation does not occur.
10.3 Possibility of hazardous reactions	Hazardous reactions No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. 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.
10.5 Incompatible materials	Materials to avoid No special restrictions on storage with other products.
10.6 Hazardous decomposition products	Process vapors under recommended processing conditions may include trace levels of, hydrocarbons, phenols, alkylphenols, diarylcarbonates

SECTION 11: Toxicological information

11.1 Acute toxicity

Acute oral toxicity Remarks: >5000 mg/kg (estimated)

Acute dermal toxicity Remarks: >2000 mg/kg (estimated)

STOT - repeated exposure

Components Titanium Dioxide PW6

Exposure routes

Target Organs Lungs

Assessment

11.2 Experience with human exposure

Inhalation

Remarks: Inhalation unlikely due to physical form. Processing fumes evolved at recommended conditions may contain trace amounts of hazardous chemicals. Extreme processing conditions or temperatures may result in higher levels. 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 duct work, molds, and other surfaces can cause irritation and injury to skin.

Skin contact

Remarks: Not a hazard during normal industrial use. If present, some additives (like glass fiber or flame retardants) may cause skin irritation in susceptible persons.

Eye contact

Remarks: Resin particles, like other inert materials, are mechanically irritating to eyes.

Ingestion

Remarks: Ingestion unlikely due to physical form.

11.3 Further information

Special studies The toxicological data has been taken from products of similar composition.

SECTION 12: Ecological information

12.1 Ecotoxicity No data available

12.2 Persistence and degradability 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Additional ecological information

Do not flush into surface water or sanitary sewer system. Based on the ecotoxicology studies conducted on fine particles/fibers in the sub-micron range, this material is not expected to be environmentally hazardous under normal use.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product

Where possible recycling is preferred to disposal or incineration.

Contaminated packaging

Where possible recycling is preferred to disposal or incineration. Can be landfilled or incinerated, when in compliance with local regulations.

SECTION 14: Transport information**14.1 UN-number**

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied

SECTION 15: Regulatory information

15.1 The components of this product are reported in the following inventories:

REACH (European Union)	For further information, please contact: Manufacturer, importer, supplier
CH INV (Switzerland)	The formulation contains substances listed on the Swiss Inventory Not in compliance with the inventory
TSCA (USA)	On TSCA Inventory
DSL (Canada)	This product contains the following components that are not on the Canadian DSL nor NDSL.
AICS (Australia)	On the inventory, or in compliance with the inventory
NZIoC (New Zealand)	On the inventory, or in compliance with the inventory
ENCS (Japan)	On the inventory, or in compliance with the inventory
ISHL (Japan)	For further information, please contact: Manufacturer, importer, supplier
KECI (Korea)	On the inventory, or in compliance with the inventory
PICCS (Philippines)	Polymer exemption Not in compliance with the inventory
IECSC (China)	Not in compliance with the inventory
TCSI (Taiwan)	For further information, please contact: Manufacturer, importer, supplier
EHSNR (Malaysia)	For further information, please contact: Manufacturer, importer, supplier
CICR (Turkey)	For further information, please contact: Manufacturer, importer, supplier

15.2 Other applicable national regulatory information

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). Not applicable

REACH - List of substances subject to authorisation (Annex XIV) Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

15.3 Chemical Safety Assessment A Chemical Safety Assessment is not required for this substance.

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.



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