

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 / Regulation (EU) 2020/878



PC-PBT

Version
2.0
IT/EN

Revision Date:
23.04.2024

SDS Number
1020

Date of last issue: 23.04.2024
Date of first issue: 23.04.2024
Print Date: 23.04.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : PC-PBT

Product code : 1020

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

Use of the Sub-
stance/Mixture : Hight-performance material for fused deposition modeling

1.3 Details of the supplier of the safety data shewet

Company : Treedplast
Via Messina, 103
20831 Seregno MB
Italy
Telephone : +039(0)362/320500
Responsible/issuing person : sales@treedfilaments.com

1.4 Emergency telephone number

Telephone : CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma)
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49(0)551/19240

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SECTION 2: Hazards identification

GHS observation

Any additives present in this product are related to the thermoplastic resin matrix. In accordance with the Globally Harmonized System (GHS) for product classification, the potential hazard can be assessed in relation to the physical-chemical form and/or bioavailability of the individual components in the thermoplastic resin. The UN-GHS states that, regardless of any adverse effects found in animal studies and in-vitro tests, no classification is required if the mechanism or mode of operation is not relevant to humans. The European CLP Regulation also states that no classification is required if the mechanism is not relevant to humans. The GHS classifications below are based on the individual components present in the thermoplastic resin matrix. Under normal conditions of use of the resin, these hazardous components are unlikely to cause an exposure risk in the workplace. Please read the entire safety data sheet and/or consult an EHS (Environment, Health and Safety) professional to gain a better understanding.

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No. 1272/2008)

Nor a hazardous substance or mixture.

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

Non-hazardous substance or mixture.

Other hazards that do not result in classification

SABIC Emergency Overview

- Spills may create slip hazard
- May ignite and create dense smoke, B9toxic
- Melted plastic may create severe thermal burns
- Fumes generated during the melting process may cause irritation to eyes, skin and respiratory tract. Severe overexposure may cause nausea, headache, chills and fever. See additional effects below
- Secondary activities, such as grinding, sandblasting or sawing, may generate dust that may present an explosion or respiratory hazard.J14

Additional Information

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OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz), respirable glass and some heavy metals, present in some colorants and fillers, as carcinogens. If these materials are present in this product in significant quantities they will be discussed in Sections 2/3. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposures under recommended operating conditions.

Processing Problems

Processing vapors can cause irritation to the eyes, skin and respiratory tract. In case of severe exposure, nausea and headaches may also occur. Condensation of grease-like processing vapors on the ventilation duct, molds and other surfaces can cause irritation and damage to the skin.

Aggravated Medical Condition

Medical Restrictions: There are no known health effects aggravated by exposure to this product. However, some sensitive individuals and those with respiratory disabilities may be harmed by exposure to components of processing vapors.

2.2 Label elements

Non-hazardous substance or mixture.

2.3 Other hazards

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

3.2 Mixtures

Chemical nature : Mixture

Hazardous components

Product Name/Ingredient	Identifiers	Concentration	Classification (REGULATION (EC) No 1272/2008)	Type
Tetrahydrofuran	109-99-9 Index: 603-025-00-0	$\geq 0.1 - < 0.3 \%$	Flam. Liq.2; H225 Acute Tox.4; H302 Eye Irrit.2; H319 Carc.2; H351 STOT SE3; H335	MPURITY
lampblack	1333-86-4	$\geq 0.3 - < 1 \%$		PIGMENT

See section 16 for the full text of the hazard statements declared above.

Components considered potentially harmful to health or the environment, if present in concentrations above the minimum are listed above.

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Any concentrations given as a range of values are intended to safeguard confidentiality and/or to account for batch-to-batch variations.

Any non-hazardous components are not listed as they are trade secrets.

This product consists primarily of high molecular weight polymers which are not considered hazardous. Additionally, any additives in this product are present within the polymer matrix and are not considered hazardous under the recommended conditions of use.

Exposure limits for workers, if available, are given in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Thermal decomposition may lead to the release of irritating gases and vapors. Move the victim to a cool, ventilated area. Call a doctor.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : In case of contact with skin, wash immediately with plenty of cold water. Wash immediately with soap and plenty of water. Consult a doctor. If skin irritation persists, call a doctor.
- In case of eye contact : Rinse eyes immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical advice.
- If swallowed : Negligible or unlikely routes of exposure. If swallowed, seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye Contact : Rinse eyes immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical advice.
- Inhalation : Move to fresh air in case of accidental inhalation of dust or fumes caused by overheating or combustion. If symptoms persist, consult a doctor.
- Skin contact : In case of contact with skin, wash immediately with plenty of cold water. Wash immediately with soap and plenty of water. Consult a doctor. If skin irritation persists, call a doctor.
- Ingestion : Negligible or unlikely routes of exposure. If swallowed, seek immediate medical attention.

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Signs/Symptoms of Overexposure

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use chemical powder, co2, water, or "anti-alcohol" foam. The best extinguishing media is water. Co2 and chemical powders are not recommended as an extinguishing media due to their limited cooling capacity, and can lead to reignition of the fire due to processing waste in blocks.

Unsuitable extinguishing media : Do not use a jet of water as it may scatter or spread the fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Avoid generating dust; dust dispersed in air in sufficient concentration, and in the presence of a flame source, constitutes a potential explosion risk.

Hazardous combustion products : The fire produces dense black smoke containing dangerous combustion products, carbon oxides, fragments of hydrocarbons. If present, some additives can also release halogenated hydrocarbons

5.3 Advice for firefighters

Special protective equipment for firefighters : Exposure to decomposition products may be a hazard to health. In the event of fire, wear self-contained breathing apparatus

Further information : Avoid accumulation of electrostatic charges. During the process, dust may form explosive mixtures in the air. Thermal decomposition may lead to the release of irritating gases and vapors.

Explosive properties : Not applicable

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Use personal protective equipment.
Avoid dust formation.
Avoid contact with skin, eyes and clothing.
Avoid the accumulation of electrostatic charges.
Avoid breathing dust.
Avoid inhalation of vapour or mist.

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Contaminated surfaces will be extremely slippery.
Treat recovered material as described in the section "Disposal considerations".

6.2 Environmental precautions

Environmental precautions : Do not discharge the wash stream into surface water or sanitary sewer systems.
Must not be abandoned in the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up or vacuum up spillage and place in a suitable container for disposal.
Avoid dispersing dust into the air (for example: blow dusty surfaces with compressed air).
Avoid dust formation.

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 practices. Ensure adequate ventilation and dust recovery at equipment vents. Avoid dust formation. All metal parts of stamping and processing machines must be electrically grounded. Open containers only in well-ventilated areas.

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge. During processing, dust may form explosive mixture in air. Keep away from heat and sources of ignition. Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing. Keep away from food and drink. General industrial hygiene practice. When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and wellventilated place.
Keep away from heat and other sources of ignition. Residual monomer vapors may accumulate at the top of closed containers.

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Storage class (TRGS 510) : 11, Combustible Solids

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	References
Tetrahydrofuran	109-99-9	TWA	TWA	2000/39/EC
Further information	Identifies the possibility of significant absorption through the skin, Indicative			
Tetrahydrofuran	109-99-9	STEL	100 ppm 300 mg/m ³	2000/39/EC
Further information	Identifies the possibility of significant absorption through the skin, Indicative			
Tetrahydrofuran	109-99-9	TWA	50 ppm 150 mg/m ³	IT OEL
Further information	The notation 'Skin' given to exposure limit values indicates the possibility of significant absorption through the skin.			
Tetrahydrofuran	109-99-9	TWA	100 ppm 300 mg/m ³	IT OEL
Further information	The notation 'Skin' given to exposure limit values indicates the possibility of significant absorption through the skin.			

8.2 Exposure controls

Engineering measures

Handle in accordance with good industrial hygiene and safety practices.
Provide adequate ventilation around machinery.
Condensation of processing fumes may pose a toxic and fire hazard; remove periodically from fume hoods, ducts and other surfaces using appropriate personal protection.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields
Equipment should conform to EN 166

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Hand protection

Material : Protective gloves
Directive : Equipment should conform to EN 374

Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Request information on glove permeation properties from the glove supplier. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.

Skin and body protection

: Safety shoes
Wear suitable protective clothing

Respiratory protection

: Effective dust mask
In the case of vapour formation use a respirator with an approved filter.

Protective measures

: Follow the skin protection plan.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : filament

Colour : Black

Odour : Absent or present in minimal quantities

Odour threshold : No information available.

Melting point/range : This product does not show a well-defined melting point but softens gradually over a wide temperature range.

Boiling point/boiling range : not determined

Flammability point : Not applicable

Upper explosion limit : not determined

Lower explosion limit : not determined

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pH	:	No data available
Vapour pressure	:	negligible
Relative density	:	>1; (acqu=1)
Density	:	not determined
Relative vapour density	:	not determined
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	No information available.
Auto-ignition temperature	:	360 °C estimated
Decomposition temperature	:	not determined
Viscosity		
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 under normal ambient conditions of temperature and pressure.
No hazardous polymerization occurs.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reactions are known when used under normal conditions.

10.4 Conditions to avoid

Conditions to avoid : To avoid thermal decomposition do not overheat. Heat can release hazardous gases.
Do not exceed the recommended melting temperatures in the product literature.
Hot discharges should be collected in small, flat, thin containers and quenched with water to allow rapid cooling.
Do not leave products in high temperature barrels for extended periods of time

10.5 Incompatible materials

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Materials to avoid : There are no incompatible products to specifically mention.

10.6 Hazardous decomposition products

Process vapors produced under the intended operating conditions may contain traces of, hydrocarbons, tetrahydrofuran (THF), aliphatic aldehydes, hydrocarbons, phenols, alkylphenols, diaryl carbonates, Ammonia

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity

Remarks: >5000 mg/kg (estimated)

Acute dermal toxicity

Remarks: >2000 mg/kg (estimated)

Components:

109-99-9:

Acute oral toxicity

Components	Value type	Species	Value
Tetrahydrofuran	DL50	Rat, male and female	1.65 mg/kg

Serious eye damage/eye irritation

Components:

109-99-9:

Components	Species	Result	Exposure time
Tetrahydrofuran	Rabbit	Corrosive	1 - 4 d

Respiratory or skin sensitization

Specific target organ toxicity (STOT) - single exposure

Components:

109-99-9:

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Components	Route of exposure	Target organs	Value
Tetrahydrofuran			May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure

Components:

109-99-9:

Components	Route of exposure	Target organs	Value
Tetrahydrofuran		Central nervous system, Eyes, Kidney, Liver, Mucous membranes, Nervous system, Respiratory tract, Skin	

1333-86-4:

Components	Route of exposure	Target organs	Value
lampblack		Lungs	

Repeated dose toxicity

Components:

109-99-9:

Components	Application method	Species	Value	Exposure time
Tetrahydrofuran	inhalation (vapor)	Mouse, male	NOAEL: 200 ppm	98 d
Tetrahydrofuran	Oral	Rat, male and female	NOAEL: 1,000 mg/	28 d

Neurological effects

Components:

109-99-9:

Evaluation: neurotoxicity

Experience with human exposure

Product:

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- Inhalation : Remarks: Inhalation unlikely due to physical form. Process fumes developed within recommended limits may contain trace amounts of chemicals.
Extreme processing conditions or temperatures may produce higher levels.
Process fumes may cause irritation of eyes, skin and respiratory tract.
Severe exposure may also cause nausea and headache.
Grease processing fumes condensed on ventilation ducts, molds, and other surfaces may cause irritation and damage to the skin.
- Skin contact : Remarks: Not a hazard under normal conditions of industrial use. If present, some additives (such as glass fibre or flame retardants) may cause skin irritation in people who have developed a sensitivity to the substance.
- Eye Contact : Remarks: Resin particles, similar to other inert materials, cause physical irritation to the eyes.
- Ingestion : Remarks: Ingestion unlikely due to physical form

Learn more

Product:

Special studies: The toxicological data refer to (s) products having similar compositions.

SECTION 12: Ecological information

Ecotoxicit

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Prodotto:

Results of the assessment PBT : This substance/mixture contains no components considered to

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and vPvB

be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional ecological information : Do not discharge wash flow into surface water or sanitary sewer systems. Ecological damage is not known or foreseeable under normal use conditions.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.
In accordance with local and national regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Contaminated packaging : Dispose of in accordance with local regulations.
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

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IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

Further information on current national regulations

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Non applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Non applicable

REACH - List of substances subject to authorisation (Annex XIV) : Non applicable

Seveso II - Directive 2003/105/EC of the European Parliament and of the Council amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Not applicable

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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

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

Water hazard class (Italy) : no data available

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of the Declarations - H

H225 : Highly flammable liquid and vapor.
H302 : Harmful if swallowed.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H351 : Suspected of causing cancer.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Carc. : Carcinogenicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified;

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NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Contact Point : Business Unit "FILAMENT 3D, PRINTING"

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.