

# Material Safety Data Sheet

According to EU Regulation No. 1907/2006  
Issued on : 16 March 2015



## SOLUBLE PS™

### 1. Identification of the substance/preparation and of the company

1.1 Trade name:	SOLUBLE PS
1.2 Chemical name:	HIPS based polymer blend
1.3 Typical use of the material:	Monofilament for FFF/FDM technology based 3D printing
1.4 Identification of the company:	CORETRUSION 29, cour des lavandes 69400 Arnas FRANCE Phone: + 33 4 74 68 43 96

### 2. Identification of the substance/preparation and of the company

2.1 Classification of the substance or mixture:	Not classified as dangerous according to directive 67/548/EEC
2.2 Risk advise to man and environment:	No risk to the health of users if the product is handled and processed properly.
2.3 Other hazards which do not result in classification:	None known.

### 3. Composition / information on ingredients

3.1 Chemical nature:	Blend of HIPS based polymers enhanced for 3D Printing
3.2 CAS number:	9003-55-8
3.3 Additional information:	No harmful substances used

### 4. First-aid measures

4.1 On skin contact:	Wash with soap and water. Get medical attention if symptoms occur. In case of contact with molten polymer immediately cool the skin with cold water. Medical aid may be required to remove adhering material and for treatment of burns.
4.2 After inhalation:	Move to fresh air. Treat symptomatically. Contact a doctor in case of discomfort.
4.3 On ingestion:	No effects know. Rinse mouth with water and drink more water. Contact a doctor in case of discomfort.
4.4 On eyes contact:	Rinse open eyes thoroughly with water. Get medical attention if symptoms persist. If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes.
4.5 Note to the physician:	Treat symptomatically

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## 5. Firefighting measures

- 5.1 Suitable extinguishing media: Foam, water spray, sand or fog, dry extinguishing media, CO<sub>2</sub>
- 5.2 Specific hazards: Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), and hydrocarbons during incomplete combustion. The substances mentioned can be released at highly elevated temperatures and in case of fire.
- 5.3 Special protective equipment: Full protective clothing and self-contained breathing apparatus.
- 5.4 Further information: Fine dust dispersed in air may ignite. Risk of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## 6. Accidental Release Measures

- 6.1 Personal precautions: Use personal equipment/clothing (see Section 8). Avoid eye contact and dust formation and remove all sources of ignition. Sweep up to prevent slipping hazard.
- 6.2 Environmental precautions: Prevent entry into drainage systems, or surface water.
- 6.3 Methods for cleaning up: Sweep/shovel into suitable container for disposal. Avoid raising dust and ensure adequate ventilation.

## 7. Handling and storage

- 7.1 Handling: Handle in a well ventilated area. Install local exhaust at 3D printers area is recommended when many printers are operated at once. Avoid contact with heated or molten product. Use personal protective equipment (Section 8). Avoid dust formation and electrostatic charge. Keep away from fire ignition sources.
- 7.2 Storage: Protect from water, moisture and direct sunlight. Store material in dry rooms and keep material in closed packaging/container with desiccant when not in use. Store at ambient temperatures. Avoid all sources of ignition.
- 7.3 Precautions: No special precautions required.
- 7.4 Specific end use(se): Primarily used for 3D Printing.

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## 8. Exposure controls / personal protection

8.1 Occupational exposure limits:	Given suitable ventilation it can be that the threshold limits will not be reached.
8.2 Exposure controls:	Provide appropriate exhaust ventilation at places where dust is formed. Avoid electrostatic charge by use of grounding cables.
<u>8.3 Personal protective equipment</u>	
8.3.1 Hand protection:	Wear heat protection gloves, preferably cotton or leather, when handling hot melt product.
8.3.2 Eye protection:	Wear protective glasses, preferable with side-shields.
8.3.3 Skin and body protection:	Wear (protective) clothing to avoid direct exposure of skin to hot molten product when handling.
<u>8.4 Environmental exposure controls</u>	
8.4.1 Product related measures to prevent exposure:	None specific
8.4.2 Instruction measures to prevent exposure:	None specific
8.4.3 Organizational measures to prevent exposure:	None specific
8.4.4 Technical measures to prevent exposure:	None specific
8.4.5 Environmental exposure controls:	Do not allow product to reach sewage system or water bodies

## 9. Physical and chemical properties

9.1 Form:	Filament
9.2 Color:	Natural or white
9.3 Odor:	Almost odorless
9.4 Melting point:	105 – 140°C
9.5 Auto-ignition temperature:	Not self igniting
9.6 Explosions limit:	Not explosive
9.7 Density:	1.04 g/cc
9.8 Solubility in water:	Not soluble
9.9 Decomposition Temperature:	> 300°C

## 10. Stability and reactivity

10.1 Stability:	Product is stable at recommended storage conditions.
10.2 Conditions to avoid:	Avoid excessive heat, flames and all sources of ignition
10.3 Incompatible materials:	Not applicable
10.4 Hazardous reactions:	The product is chemically stable.

## 11. Toxicological information

11.1 Information on toxicological effects:	Toxicological data has not been determined for this product. Information is based on similar products.
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## 11.1.1 Acute toxicity

Inhalation:	Dust can cause irritation of respiratory organs
Ingestion:	After ingestion stomach pain or nausea are possible
Skin contact:	No data available, may cause irritations
Eye contact:	No data available, may cause irritations

## 11.1.2 Irritation

Skin:	Dust can cause irritation of eyes, respiratory organs and skin.
Eye:	Dust can cause irritation of eyes, respiratory organs and skin.

## 11.1.3 Sensitization:

Not expected to be a skin sensitizer.

## 11.1.4 Repeated dose toxicity:

Not expected to cause toxic effects.

## 11.1.5 Carcinogenicity:

No data available, but not expected.

## 11.1.6 Mutagenicity:

No data available, but not expected.

## 11.1.7 Toxicity for reproduction:

No data available, but not expected.

## 11.2 Other information:

Based on our state of knowledge and experience no injurious health effects are expected if product is properly handled for the designated use.

## 12. Ecological information

### 12.1 Information on eco-toxicity:

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large of frequent spills can have a harmful or damaging effect on the environment.

### 12.1.1 Ecological toxicity effects:

No data available

### 12.2 Mobility in soil:

No data available

### 12.3 Persistence and degradability:

Product is not readily biodegradable  
The product is likely to persist in environment

### 12.4 Bioaccumulation potential:

To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments.

## 13. Disposal considerations

### 13.1 Product:

Generation of waste should be minimized, check possibility for recycling. Waste product can be incinerated or dumped together with domestic waste in compliance with local authority requirements.

### 13.2 Packaging:

Packaging material has to be emptied completely and disposed in accordance with the regulations. Packaging can be recycled if not contaminated.

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## 14. Transport information

14.1 International Air transport regulations (IATA):	Not classified as hazardous
14.2 International Maritime Organization (IMDG):	Not classified as hazardous
14.3 UN, IMO, ADR/RID, ICAO Code:	Not classified as hazardous

## 15. Regulatory information

15.1 EU regulations:	This product does not require a hazard warning label in accordance with EC Directives.
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## 16. Other information

Issues date:	16/03/2015
Disclaimer:	The information given in the Material Safety Data Sheet only applies to the described product in connection with its appropriate use. All information is based on the latest state of our knowledge. In particular, it describes our product under the aspect of possible hazards and pertaining safety measures. This safety data sheet describes our product in terms of safety requirements. Preceding data is not applicable as a warranty of product properties. It is the responsibility of the recipient to observe the existing legal regulations for use of this product.