# SAFETY DATA SHEET

## Polypropylene Caverna™

**Version number: 1.0** **Date of issue: 2021-02-11, Printed on: 2021-02-11**

## SECTION 1: IDENTIFICATION

### 1.1 Product identifier

| | |
|---|---|
| **Product name** | **Polypropylene Caverna** |
| Product number | PR00600; IMS711285500G; IMS711175500G; IMS10080 |
| Brand | Interfacial |

### 1.2 Other means of identification

Polypropylene Caverna (pellet, 1.75mm filament, or 2.85mm filament)

### 1.3 Recommended use of the chemical and restrictions on use

Partially water-dispersible polymeric composite material to be extruded, molded, or printed.

### 1.4 Supplier's details

**Infinite Material Solutions™**
1091 Sutherland Ave. River Falls, WI 54022 United States
phone: (715) 629-7928
email: brandon.cernohous@weareinfinite.tech

### 1.5 Emergency telephone number

| | |
|---|---|
| (715) 629-7928 | Office Hours 9:00 am – 5:00 pm Monday through Friday<br>Central Standard Time-Zone |

## SECTION 2: HAZARD(S) IDENTIFICATION

### 2.1 Classification of the chemical in accordance with paragraph (d) of 29 C.F.R. § 1910.1200

Not a hazardous substance or mixture.

### 2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixtures

No hazardous components

## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of necessary first-aid measures

| | |
|---|---|
| **General advice** | If medical attention is sought, show this safety data sheet to the doctor in attendance. Provide general supportive measures and treat symptomatically. |
| **If inhaled** | Move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Remove dusty or contaminated clothing. Wash with soap and water as a precaution. If symptoms persist, consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water. If symptoms persist, consult a physician. |
| **If swallowed** | Rinse mouth with water. Never give anything by mouth to an unconscious person. This product is not considered toxic. Consult a physician. |
| **Personal protective equipment for first-aid responders** | None needed. |

### 4.2 Most important symptoms/effects, acute and delayed

Eye/skin contact with hot or molten material may cause injury, including possible blindness/thermal burns. Ingestion may produce mild gastrointestinal irritation and disturbances. Thermal processing fumes may cause irritation, pulmonary edema and a possible asthma-like response.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treatment of exposure should be directed at the control of symptoms and the condition of the patient.

## SECTION 5: HAZARD(S) IDENTIFICATION

### 5.1 Suitable Extinguishing media:

Use water spray, alcohol-resistant foam, dry chemicals, or carbon dioxide.
Avoid using a direct, high-pressure water stream that may spread molten or burning resins.

### 5.2 Specific hazards arising from the chemical

At high temperatures, this material may emit various oligomers, waxes, and oxygenated hydrocarbons as well as carbon dioxide, carbon monoxide, and small amounts of other organics vapors. Inhalation of these decomposition products may be irritating and/or hazardous.

### 5.3 Special protective actions for firefighters

In the event of fire, wear self-contained breathing apparatus for firefighting.

### 5.4 Further information

Use water spray to cool unopened containers.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. For personal protection measures, see Section 8.

**6.2 Environmental precautions:**

Prevent further spillage if safe to do so. Discharge into the environment should be controlled. This product is not regulated by RCRA. This product is not regulated by CERCLA.

**6.3 Methods and material for containment and cleaning up:**

Contain spill. Prevent entry into sewers and drains, underground or confined spaces, water intakes, and waterways. Spilled product may create a slipping hazard.

**6.4 Reference to other sections**

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling:**

Handle in properly designated containers. Keep away from uncontrolled sources of ignition and incompatible materials (solvents and strong oxidizing agents). Processing may result in the formation of combustible and/or hazardous respirable dusts. The potential for combustible dust formation should be taken into consideration before additional processing.

**7.2 Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed in a dry and well ventilated storage area, away from uncontrolled heat sources and incompatible materials (water, solvents, and strong oxidizing agents).

Specific end use(s): Apart from the uses mentioned in section 1.3 no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Polyvinyl alcohol copolymer**
TLV® (Inhalation): 10 mg/m3 inhalable particles; 3mg/m3 respirable particles (ACGIH)

**Polyvinyl alcohol copolymer**
TWA (Inhalation): 15 mg/m3 total dust; 5 mg/m3 respirable fraction (OSHA)

**Polyvinyl alcohol copolymer**
TLV® (Inhalation): 10 mg/m3 inhalable particles; 3mg/m3 respirable particles (ACGIH)

### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practices.
Wash hands before breaks and at the end of workday.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

**Respiratory Protection:**

Wear appropriate personal protective equipment if respirable dust is present.

**Skin Protection:**

Handle with impervious gloves.

**Eye Protection:**

Use eye protection which has been tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Other Protective Equipment:**

Wear protective clothing (such as long- sleeved shirts and long pants) whenever molten material is present. Safety footwear with good traction is recommended to help prevent slipping.

**Thermal Hazards:**

Use appropriate personal protective equipment when processing this material. Molten material may cause burns.

**Environmental Exposure Controls:**

Prevent leakage or spillage if safe to do so.
Discharge into the environment should be controlled.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Appearance/form** | White to light tan pellets, granules, or filament |
| **Odor** | None |
| **Odor threshold** | No data available. |
| **pH** | No data available. |
| **Melting point/freezing point** | 180 – 240 °C |
| **Initial boiling point and boiling range** | No data available. |
| **Flash point** | No data available. |
| **Evaporation rate** | Negligible |
| **Flammability (solid, gas)** | No data available. |
| **Upper/lower flammability limits** | No data available. |
| **Upper/lower explosive limits** | No data available. |
| **Vapor pressure** | Negligible |
| **Vapor density** | No data available. |
| **Relative density** | 1.2 - 1.6 |
| **Solubility(ies)** | Partially dispersible in water |
| **Partition coefficient: n-octanol/water** | No data available. |
| **Auto-ignition temperature** | No data available. |
| **Decomposition temperature** | >285 °C |
| **Viscosity** | No data available. |
| **Explosive properties** | No data available. |
| **Oxidizing properties** | No data available. |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactive Hazard

None under normal use conditions

### 10.2 Stability

Stable under recommended storage and use conditions.

### 10.3 Possibility of hazardous reactions

Keep away from uncontrolled sources of ignition and incompatible materials (water, solvents, and strong oxidizing agents). Water, organic solvents, acids, or bases may react with and/or degrade this product.

### 10.4 Conditions to avoid

Avoid sources of ignition, flames and sparks. Avoid strong oxidizing agents. Avoid processing material >260 °C.

### 10.5 Incompatible materials

Components of this material are incompatible with strong oxidizing agents. Organic solvents, acids, or bases may react with and/or degrade this product.

### 10.6 Hazardous decomposition products

None

## SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|---|---|
| **Acute toxicity** | Product test data not available. |
| **Skin corrosion/irritation** | Product test data not available. |
| **Serious eye damage/irritation** | Product test data not available. |
| **Respiratory or skin sensitization** | Product test data not available. |
| **Germ cell mutagenicity** | Product test data not available. |
| **Carcinogenicity** | Product test data not available. |
| **Reproductive toxicity** | Product test data not available. |
| **Summary of evaluation of the CMR properties** | Product test data not available. |
| **STOT-single exposure** | Product test data not available. |
| **STOT-repeated exposure** | Product test data not available. |
| **Aspiration hazard** | Product test data not available. |
| **Additional information** | To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated. |

## SECTION 12: ECOLOGICAL INFORMATION

| | |
|---|---|
| **Toxicity** | Product test data not available. |
| **Persistence and degradability** | Product is not anticipated to be inherently biodegradable in aquatic or terrestrial environments. |
| **Bioaccumulative potential** | Bioaccumulation of this material is not likely. |
| **Mobility in soil** | Mobility of this material in the terrestrial environment has not been evaluated. |
| **Results of PBT and vPvB assessment** | Product is not anticipated to bioaccumulate, and is not toxic, therefore it does not meet criteria to be classified as Persistent, Bioaccumulative and Toxic (PBT), nor does it meet criteria to be classified as very Persistent or very Bioaccumulative (vPvB). |
| **Other adverse effects** | Due to the compostion and intended use of this product, post-process water should not be discharged to the environment. |

## SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal of the product**

Offer surplus and non-recyclable pellets/filament/material to a licensed company for recycling or disposal.

**Disposal of contaminated packaging**

Dispose of as unused product.

**Other disposal recommendations**

Dispose of material and process water in accordance with local, regional, national, and international regulations.

## SECTION 14: TRANSPORT INFORMATION

| | |
|---|---|
| **DOT (US)** | Not dangerous goods |
| **IMDG** | Not dangerous goods |
| **IATA** | Not dangerous goods |

**Important Note:** Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin anddestination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations specific for the product in question

| | |
|---|---|
| **Toxic Substances Control Act (TSCA) Inventory:** | All components. |
| **California Prop. 65 Components** | None listed. |
| **Canadian Domestic Substances List (DSL)** | All components. |
| **REACH** | All components registered. This product does not contain substances of very high concern. (Regulation (EC) No. 1907/2006 (REACH), Article 57). |
| **SARA 313 Components** | No components are SARA 313 listed. |
| **SARA 311/312 Hazards** | No components are SARA 313 listed. |
| **SARA 302 Components** | No components are SARA 302 listed. |

### 15.2 Chemical Safety Assessment

This material is non-reactive, chemically stable, and inert under recommended storage and use conditions. This material may be melted upon heating and thermal hazards may be associated with the molten material. Human and ecological impacts of this material have not been tested.

| **HMIS Rating:** | | **NFPA Rating:** | |
|---|---|---|---|
| Health | 1 | Health hazard | 1 |
| Flammability | 1 | Fire hazard | 1 |
| Physical hazard | 0 | Reactivity hazard | 0 |
| Personal protection | B | Special hazard | |

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

### 16.1 Further information/disclaimer

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### 16.2 Date of preparation of the SDS: April 2021

### 16.3 Version: 1.0

### 16.4 Disclaimer:

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