

Version number: 1.0

1st revision: 2020-08-21

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier used on the label

Trade name	Aquasys 180 AquaSys 180 Water Dispersible Support
Product number	Aquasys 180, PR00484; IMS10075
Brand	Infinite Material Solutions

1.2 Other means of identification

AquaSys 180 (pellet, 1.75mm filament, or 2.85mm filament)

1.3 Recommended use of the chemical and restrictions on use

Water dispersable polymeric composite material. Thermoplastic composite to be extruded, molded, 3D printing.

1.4 Name, address, and telephone number of the importer

Infinite Material Solutions
 1091 Sutherland Ave. River Falls, WI 54022 United States
 phone: 917.209.8371
 email: jason.bassi@weareinfinite.tech

1.5 Emergency telephone number

917.209.8371	Office Hours 9:00 am – 5:00 pm Monday through Friday 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 hemical or carbon dioxide.
Avoid high pressure, direct 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. 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 see section 8.

6.2 Environmental precautions:

Prevent further spillage if safe to do so. Discharge into the environment should be controlled. Handle process wastewater as industrial waste. 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 (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

1. Component 1 (trade secret)

TWA (Inhalation): 10 mg/m³ inhalable particles; 3mg/m³ respirable particles (ACGIH)

2. Component 1 (trade secret)

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

8.1 Appropriate engineering controls

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

8.2 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	Opaque, tan to brown pellets, granules, or filament
Odor	None
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	180-260 °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, non-volatile solid
Vapor density	No data available.
Relative density	1.2 - 1.6
Solubility(ies)	Dispersible in hot 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 (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. Water, 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 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 anticipated to be inherently biodegradable in aquatic or terrestrial environments, is not anticipated to bioaccumulate, and is not toxic.
Other adverse effects	Product test data not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Safe to dispose in sewer systems. Local requirements may still restrict or prohibit direct sewer disposal so please consult and manage the disposal of dissolved material in accordance with state and local requirements.

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

Disposal of contaminated packaging.

Dispose of as unused product.

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 and destination. 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 compliant

California Prop. 65 Components: None listed

Canadian Domestic Substances List (DSL): All components compliant

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:

Health

Flammability

Physical hazard

Personal protection

NFPA Rating:

1 Health hazard

1 Fire hazard

0 Reactivity hazard

B Special hazard

1

1

0

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

16.1 Further information/disclaimer

The information contained in this document is presented in good faith, based on available information which is believed to be reliable at the time this document was prepared, Infinite Material Solutions makes no warranties or representations with respect to information or the product/materials described herein, and expressly disclaims all implied warranties and conditions (including all warranties and conditions of merchantability or fitness for a particular purpose). No infringement of any patent owned by Infinite Material Solutions or others is to be inferred. This information is subject to change without notice. Please contact Infinite Material Solutions for the most current version of this SDS. Infinite Material Solutions does not assume responsibility for SDS obtained from third party sources.

Unless specifically agreed otherwise, Infinite Material Solutions does not take responsibility for use, transportation, storage, handling, or disposal of the products described herein.

16.2 Date of preparation of the SDS: August 2020

16.3 Version: 1.0

16.4 Disclaimer:

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

For Industrial use Only: This product is for use by professional, trained personnel using proper equipment, and is not intended for sale to, or use by, the general public.

NON-WARRANTY: Any recommendation of Infinite Material Solutions contained herein covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, Infinite Material Solutions makes no warranty or representation with respect thereto. Use or application of any Infinite Material Solutions product is at the discretion of the Buyer without liability or obligation whatsoever of Infinite Material Solutions.