

Imperium Masterbatch SDS

SECTION 1: Identification

1.1 Product identifier

Product name	Imperium Masterbatch (MB)
Product number	Imperium 007-101
Brand	Heartland Industries

1.2 Other means of identification

Imperium 101; 98% Cellulose Fiber Masterbatch; 98% Imperium Masterbatch;

1.3 Recommended use of the chemical and restrictions on use

Resin for extrusion or compounding.

1.4 Supplier's details

Name	Heartland Industries, Inc.
Address	330 E Liberty Street Ann Arbor, MI 48104 United States
Telephone	(602) 571 4133
Fax	n/a
email	hello@heartland.io

1.5 Emergency phone number(s) 313-649-7848

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

This material is not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification

The material is a mixture of components that are encapsulated in polymer which minimizes the potential risk for exposure. During normal processing some vapors may be released, so the end-user should take necessary precaution (adequate ventilation) to protect employees from exposure. The product has not been tested for whole for health effects, but the exposure effects are based on the existing data for the identified components.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

1. Compatibilizer
Concentration 0.1 - 2.0 % (Weight) CAS No.: Trade Secret
2. Cellulose Fiber
Concentration 98.1 - 99.9 % (Weight) CAS No. 9004-34-6 (Cellulose)

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 - Resin particles, like other inert materials, may be mechanically irritating to eyes. Rinse thoroughly with plenty of water. If symptoms persist, consult a physician.

If swallowed - Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Personal protective equipment for first-aid responders - Wear gloves and avoid inhalation of respirable dust.

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.

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: Fire-fighting measures

5.1 Suitable extinguishing media

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

5.2 Specific hazards arising from the chemical

Upon high heating, this material may emit various oligomers, waxes, oxygenated hydrocarbons, carbon oxides, and other organic vapors. Inhalation of these decomposition products may be hazardous.

5.3 Special protective actions for fire-fighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter sewers and drains. Prevent further spillage if safe to do so. Discharge into the environment should be avoided.

6.3 Methods and materials 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.

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 or systems. Avoid contact with eyes or inhalation of dusts.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated storage area (ideally a designated storage area).

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

No specific controls parameters are available. Adequate ventilation is recommended during processing.

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) Eye/face protection

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

Skin protection

Handle with gloves. Gloves should be inspected prior to use. Wash and dry hands after use.

Body protection

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.

Respiratory protection

If excess dust is present air-purifying respirators may be appropriate. If respirator is the sole means of protection, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.

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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Pellets, natural
Odor	None or Slight
Odor threshold	No data available
pH	No data available
Melting point/freezing point	115-140C (analogous material)
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	No data available
Solubility(ies)	Insoluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	>250C
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage and use conditions. This product is stable under normal use conditions for shock, vibration, pressure, and temperature.

10.3 Possibility of hazardous reactions

Keep away from uncontrolled incompatible materials (strong oxidizing agents and strong reducing agents). Organic solvents, acids, or bases may react with and/or degrade this product.

10.4 Conditions to avoid

Avoid processing material >250 °C.

10.5 Incompatible materials

Organic solvents, ether, gasoline, lubricating oils, chlorinated hydrocarbons, aromatic hydrocarbons, acids, or bases may react with and/or degrade this product

10.6 Hazardous decomposition products

Upon high heating, this material may emit various oligomers, waxes, oxygenated hydrocarbons, carbon oxides, and other organic vapors. Inhalation of these decomposition products may be hazardous.

SECTION 11: Toxicological information

Information on toxicological effects

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

No carcinogenic components. 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 likely to readily degrade 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

Based on the constituents, this material is not anticipated to be considered PBT (Persistent, Bioaccumulative, and Toxic) or vPvB (very persistent and very bioaccumulative).

Other adverse effects

Product test data not available.

SECTION 13: Disposal considerations

Disposal of the product

Do not dispose of waste into sewer. 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 – Not regulated

IMDG

Not dangerous goods – Not Regulated

IATA

Not dangerous goods – Not Regulated

SECTION 15: Regulatory information

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

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
No listed components

Toxic Substances Control Act (TSCA) Inventory

All components compliant

Canadian Domestic Substances List (DSL)

All components compliant

SARA Hazard Categories Immediate Hazard - No Delayed Hazard - No
Fire Hazard - No Pressure - No Reactivity - No

SARA 302 Components

This product does not contain SARA 302 hazard categorized chemical

SARA 311/312 Hazards

This product does not contain SARA 311/312 hazard categorized chemicals.

SARA 313 Components

This product does not contain chemicals with SARA 313 reporting requirements.

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. Whole product human and ecological impacts of this material have not been tested, any classifications made have been based entirely on individual components.

HMIS Rating	
Health	0
Flammability	1
Physical hazard	0
Personal protection	B
NFPA Rating	
Health hazard	0
Fire hazard	1
Reactivity hazard	0
Special hazard	

SECTION 16: Other information

16.1 Further information/disclaimer

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16.2 Revision Date

The date of issue for this SDS is 07/01/2023.