

MATERIAL SAFETY DATA SHEET
Essentium PC-CF



Rev. Date: 6/14/2017

Thank you for your interest in Essentium Materials' products. We are providing this material safety data sheet [MSDS] as a courtesy to your request. We certainly expect you to read the entire MSDS and to call us with any required points of clarification. Please follow all precautions identified in this document.

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Essentium PC/CF

SUPPLIER: Essentium Materials LLC
ADDRESS: 5880 Imperial Loop Drive, Suite 10
College Station, TX 77845

MANUFACTURER: Essentium Materials LLC
ADDRESS: 5880 Imperial Loop Drive, Suite 10
College Station, TX 77845

SUPPLIER EMERGENCY CONTACTS & PHONE:

Essentium Materials LLC 979-777-2354
Email: sales@essentiummaterials.com
www.essentiummaterials.com

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Polycarbonate	Proprietary	Proprietary
Carbon filler	Proprietary	Proprietary

All ingredients in quantities > 1.0% (0.1% for carcinogens) that are potentially hazardous per OSHA definitions.

SECTION 3: HAZARDS IDENTIFICATION

HMIS ratings: Health: 0 Flammability: 1 Physical Hazard: 0

Hazard Statement: Molten polymer will cause thermal burns. Please take all precautions necessary to avoid burns by the molten polymer.

Precautionary Statement: None

Potential health effects: See Section 11 for more information

Environmental precautions: See Section 12 for more information.

Other Hazards: If small particles are generated during further processing, handling, or by other means,combustible dust concentrations in air may form. See Section 7 and 8 for additional information.

SECTION 4: FIRST AID MEASURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial best practices are followed. Precautions should be taken to avoid inhalation and eye contact.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Skin Contact: Adverse effects are not expected from accidental skin contact following occupational exposure. After contact with skin, wash with liberal amounts of water. If skin irritation persists, call a physician.

Ingestion: Do not induce vomiting without medical advice. Call a physician immediately.

Inhalation: Move to fresh air. Call a physician immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability:

Autoignition temperature: Unknown

Suitable extinguishing media: Foam, Carbon dioxide, Dry Chemical, and Water Fog

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Special exposure hazards: In its present form, this product offers no unusual fire and explosion hazards. However, dust and fumes generated from this product could present an explosion hazard

Hazardous combustion products: Burning may produce carbon monoxide, carbon dioxide, hydrocarbons and other possible toxic combustion products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Remove all sources of ignition. Sweep up and remove to prevent slipping hazard.

Environmental precautions: Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods for cleaning up: Clean up promptly by scoop or vacuum. Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

SECTION 7: HANDLING AND STORAGE

Safe handling advice: Use personal protective equipment. Avoid contact with skin and eyes. Low hazard for usual industrial or commercial handling. Workers should be protected from the possibility of contact with molten material during fabrication. Avoid dust formation. If small particles are generated during further processing, handling, or by other means, combustible dust concentrations in air may form. Provide appropriate local ventilation at machinery and at places where dust can be generated. In case of insufficient ventilation, wear suitable respiratory equipment. Protect from moisture and impurities. Keep the floor clear of pellets.

Storage: Store in a cool, dry, well ventilated storage area. Keep container covered when not in use.

Precautions: No special precautions required.

Dangerous Reaction: No dangerous reactions are known.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Control:

Engineering measures: Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Work in well ventilated areas. Do not breathe dust, if generated. Physical processes such as grinding, high speed blending, etc may generate dust. Provide appropriate exhaust ventilation at places where dust is formed.

Exposure limits: None established. This material can generate Particulates Not Otherwise Classifiable (PNOC). The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m³ for total dust and 5 mg/m³ for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m³ for inhalable particulates and 3 mg/m³ for respirable particulates.

Threshold Limit Value (TLV): Not established

Personal protective equipment:

Eye protection: Safety glasses with side-shields. Goggles.

Skin and body protection: Impervious clothing. Gloves.

Respiratory protection: Respirator must be worn if exposed to dust. Wear respirator with dust filter. Consult an industrial hygiene professional prior to respirator selection and use. Use a positive-pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Special hazard: Workers should be protected from the possibility of contact with molten material during fabrication.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash thoroughly after handling and before eating, drinking or using tobacco products

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid Filament

Appearance: Black filament.

Color: Black

Odor: No apparent odor

pH: Not applicable

Vapor pressure: Not determined

Vapor density: Not determined

Evaporation rate: Not applicable

Density: 1.24 g/cm³

Flammability: Not flammable

Decomposition temperature: Not available

Boiling point / boiling range: Not available

Melting point / melting range: Not available

Autoignition temperature: Not available

Water solubility: Not determined

Solubility in other solvents: Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None expected under conditions of normal use.

Chemical stability: Stable under recommended storage conditions.

Dangerous conditions: Do not store near heat, flame nor strong oxidizing agents, acids or bases. Minimize dust generation and accumulation

Hazardous decomposition products: Carbon monoxide, carbon dioxide, hydrocarbons and other possible toxic substances can be generated during thermal decomposition and combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral toxicity: Not tested

Acute inhalation toxicity: Not tested

Acute dermal toxicity: Not tested

Skin irritation: Not tested

Eye irritation: Not tested

Skin sensitization: Not tested

Chronic toxicity: Not tested

Carcinogenicity: This product is not classified as a carcinogen by IARC, NTP, OSHA or ACGIH.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste from residues / unused products: In accordance with local and national regulations. Should not be released into the environment. Do not contaminate ponds, waterways or ditches with chemical or used container. Contact manufacturer.

Contaminated packaging: Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

THE COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Not regulated for transportation

WATER TRANSPORTATION

PROPER SHIPPING NAME: Not regulated for transportation

AIR TRANSPORTATION

PROPER SHIPPING NAME: Not regulated for transportation

SECTION 15: REGULATORY INFORMATION

(not meant to be all inclusive - selective regulations represented)

Regulatory requirements are subject to change and may differ between locations. It is the User's responsibility to ensure that all activities comply with all federal, state or provincial and locals laws and regulations. The following specific information is made for

Commented [R1]: Might want to include the info listed on the Skygreen MSDS... You don't have to since you say contact us for international regulations...

the purpose of complying with numerous national, federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

Sara 313 title III: This product does not contain any components that exceed the threshold reporting levels established by SARA Title III, Section 313

TSCA Inventory List: All component(s) comprising this product are either exempt or listed on the TSCA inventory

California Proposition 65: This product contains residual amounts of a substance(s) known to the State of California to cause cancer or reproductive toxicity

INTERNATIONAL REGULATIONS: Contact Essentium Materials, Inc. for more information.

SECTION 16: OTHER INFORMATION

DISCLAIMER:

Essentium Materials LLC nor any of its subsidiaries assumes any liability whatsoever for transporting/handling the product. It is the buyer's/user's/licensee's responsibility to ensure that its activities comply with all federal, state, provincial, or local laws and import/export requirements. We assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Essentium Materials LLC makes no warranties, expressed or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. Final determination of suitability of any material is the sole responsibility of the user.