

CRASTIN® HR5315HF BK503 PBT thermoplastic polyester resin

Version 3.0

Issue Date : 12/03/2022 Ref. 130000019944
Revision Date : 05/30/2022

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CRASTIN® HR5315HF BK503 PBT thermoplastic polyester resin
Product Use : Polymer

Restrictions on use : For manufacturing and research use only

Manufacturer/Supplier : Celanese Sales U.S. Ltd.
222 West Las Colinas Boulevard Suite 900N
Irving, TX 75039

Telephone : +1 972-443-4000 E-mail address: HazCom@celanese.com
E-mail address : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : Domestic NA: 800-424-9300 International, CALL +1 703-527-3887 (collect calls a

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category
Combustible dust

Label content

Pictogram : not required

Signal word : Warning

Hazardous warnings : If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Hazardous prevention measures : not required

Other hazards

No applicable data available.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES

General advice : No applicable data available.

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin contact : The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Obtain medical treatment for thermal burn.

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Ingestion : No specific intervention is indicated. Consult a physician if necessary.

Most important symptoms/effects, acute and delayed : No applicable data available.

Protection of first-aiders : No applicable data available.

Notes to physician : No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water, Foam, Dry chemical, Carbon dioxide (CO₂)

Unsuitable extinguishing media : No applicable data available.

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- Specific hazards : Combustible . Large molten masses may ignite spontaneously in air. Water quenching is good practice. Minimize the generation and accumulation of dust. Failure or malfunction of temperature control systems on processing equipment, such as extruders, may create explosion hazards. Hazardous combustion products may include:
(see also section 10) Carbon monoxide, Carbon dioxide.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Evacuate personnel and keep upwind of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Spilled material is a slipping hazard.
- Environmental precautions : Do not discharge to streams, ponds, lakes or sewers.
- Spill Cleanup : Spills of fine material should be cleaned using gentle sweeping or vacuuming. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools.
- Accidental Release Measures : No applicable data available.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Open container only in well-ventilated area. Wash hands thoroughly after handling. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. Do not breathe dust. Minimize the generation and accumulation of dust. Pneumatic conveying and other mechanical handling operations can generate combustible dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

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Handling (Physical Aspects) : No applicable data available.
 Dust explosion class : No applicable data available.
 Storage : Store in a cool, dry place. Keep container closed to prevent contamination.
 Keep in an area equipped with sprinklers.
 Storage period : No applicable data available.
 Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits. Use local exhaust to completely remove vapors and fumes liberated during hot processing from the work area.

Personal protective equipment
 Respiratory protection : Additives in this product do not present a respiration hazard unless the product is ground to a powder of respirable size and the dust is inhaled. All dusts are potentially injurious to the respiratory tract if respirable particles are generated and inhaled. A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer. Use a positive pressure air supplied respirator if exposure levels are not known or there are any other circumstances where air purifying respirators may not provide adequate protection.
 Consult the OSHA respiratory protection information located at 29CFR 1910.134.

Hand protection : Additional protection: Wear leather or cotton gloves when grinding, sawing, routing, drilling or sanding., When handling hot material, use heat resistant gloves.

Eye protection : Wear safety glasses with side shields. Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material. A full-face mask respirator provides protection from eye irritation.

Skin and body protection : If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.

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Exposure Guidelines

Exposure Limit Values

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

Non-Constituent(s)

Dust (inhalable and respirable fraction)

PEL (Permissible Exposure Limit) (OSHA) 50 Million particles per cubic foot TWA total dust

PEL (Permissible Exposure Limit) (OSHA) 15 mg/m³ TWA total dust

PEL (Permissible Exposure Limit) (OSHA) 5 mg/m³ TWA respirable fraction

PEL (Permissible Exposure Limit) (OSHA) 15 Million particles per cubic foot fraction TWA respirable

TLV (ACGIH) 3 mg/m³ TWA Respirable particulate matter

TLV (ACGIH) 10 mg/m³ TWA Inhalable particulate matter

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
 Form : pellets
 Color : black

Odor : ether-like

Odor threshold : 0.31 ppm tetrahydrofuran

pH : Not applicable

Melting point/freezing point : Melting point/range
 > 200 °C (> 392 °F)

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Boiling point/boiling range	: Boiling point/boiling range Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: May form combustible dust concentrations in air during processing, handling or other means.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapor pressure	: Not applicable
Vapor density	: Not applicable
Specific gravity (Relative density)	: > 1
Water solubility	: insoluble
Solubility(ies)	: No applicable data available.
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: >300 °C Thermal decomposition of the resin accelerates above temperature listed. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable at normal ambient temperature and pressure.

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Chemical stability	: Stable at normal ambient temperature and pressure.
Possibility of hazardous reactions	: Polymerization will not occur.
Conditions to avoid	: Temperature > 300 °C (> 572 °F) Abnormally long processing time or high temperatures can produce irritating and toxic fumes. Decomposes on heating. At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin accelerates. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.
Incompatible materials	: Strong acids Strong bases, Strong oxidizing agents
Hazardous decomposition products	: Hazardous thermal decomposition products may include: Aldehydes, Respirable particles. , Carbon monoxide , Carbon dioxide, Tetrahydrofuran, 1,3-Butadiene

SECTION 11. TOXICOLOGICAL INFORMATION

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Further information : No data is available on the product itself. For additional toxicity data, write to the company address or call the non-emergency number shown in Section 1.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

This product does not contain any reportable carcinogens according to OSHA Hazard Communication Standard 2012.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : No data is available on the product itself. Toxicity is expected to be

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low based on insolubility in water.

SECTION 13. DISPOSAL CONSIDERATIONS

- Waste disposal methods - Product : Preferred options for disposal are recycling or incineration with energy recovery. The high fuel value of this product makes incineration very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.
- Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

- TSCA : In compliance with TSCA-active Inventory requirements for commercial purposes.
- SARA 311/312 Hazard classification : Combustible dust
- SARA 313 Regulated Chemical(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Unspecified barium compounds, Unspecified fluorine compounds, Butyl acrylate
- NJ Right to Know Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as



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carcinogens, mutagens or teratogens): Carbon black

California Prop. 65 : This product can expose you to substances including Unspecified lead compounds, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Restrictions for use :

Read the product information datasheet for this product or the molding guide for this resin family. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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



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Warning

Hazard statements: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Refer to Safety Data Sheet (SDS) for further information.

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222 West Las Colinas Boulevard Suite 900N
Irving, TX 75039

Product Information: +1 972-443-4000 E-mail address: HazCom@celanese.com
Medical Emergency: 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency: CHEMTREC: Domestic NA: 800-424-9300
International, CALL +1 703-527-3887 (collect calls accepted)

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