

**changed NAM PROD from CRAFTIN®
HR5330HFS BK591 PBT thermoplastic polyes-
ter resin (C1) to CRAFTIN® HR5330HFS
BK591 (C1)**

Version	Revision Date:	SDS Number:	Date of last issue: 04-15-2024
7.1	04-28-2025	300000004093	Date of first issue: 01-29-2024

SECTION 1. IDENTIFICATION

Product name : changed NAM PROD from CRAFTIN® HR5330HFS BK591
PBT thermoplastic polyester resin (C1) to CRAFTIN®
HR5330HFS BK591 (C1)

Product code : 000000000027042307

Manufacturer or supplier's details

Company name of supplier : Celanese Ltd. Irving Texas
Address : 222 West Las Colinas Boulevard Suite 900N
Irving TX 75039
Telephone : +1 972-443-4000
Emergency telephone num- : DOMESTIC NORTH AMERICA: 800-424-9300
ber : INTERNATIONAL, CALL +1 703-527-3887 (collect calls ac-
cepted)

Recommended use of the chemical and restrictions on use

Recommended use : Plastic processing industry
Restrictions on use : For manufacturing and research use only

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Combustible dust

Other hazards

None known.

GHS label elements

Signal word : Warning

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

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

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air in case of accidental inhalation of fumes

**changed NAM PROD from CRASTIN®
HR5330HFS BK591 PBT thermoplastic polyes-
ter resin (C1) to CRASTIN® HR5330HFS
BK591 (C1)**

Version	Revision Date:	SDS Number:	Date of last issue: 04-15-2024
7.1	04-28-2025	300000004093	Date of first issue: 01-29-2024

from overheating or combustion.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Call a physician.

In case of 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.

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

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

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

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

Specific hazards during fire-fighting : Combustible
Large molten masses may ignite spontaneously in air.
Water quenching is good practice.
Minimize the generation and accumulation of dust.
Material in pellet form may accumulate static charge when poured from one container to another.
Failure or malfunction of temperature control systems on processing equipment, such as extruders, may create explosion hazards.

Hazardous combustion products : Hazardous combustion products may include:
Carbon monoxide
carbon dioxide
(see also section 10)

Further information : Evacuate personnel and keep upwind of fire.

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures : Avoid breathing dust.
Ensure adequate ventilation.

Version	Revision Date:	SDS Number:	Date of last issue: 04-15-2024
7.1	04-28-2025	3000000004093	Date of first issue: 01-29-2024

agency procedures	Spilled material is a slipping hazard.
Environmental precautions	: Do not discharge to streams, ponds, lakes or sewers.
Methods and materials for containment and cleaning up	: Pick up and arrange disposal without creating dust. Sweep up or vacuum up spillage and collect in suitable container for disposal. 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.

Advice on safe handling	: 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 opera- tions can generate combustible dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
Conditions for safe storage	: Store in a cool, dry place. Keep container closed to prevent contamination. Keep in an area equipped with sprinklers.

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dust (inhalable and respirable fraction)	Not Assigned	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
		TWA (Inhalable particulate matter)	10 mg/m3	ACGIH

**changed NAM PROD from CRASTIN®
HR5330HFS BK591 PBT thermoplastic polyes-
ter resin (C1) to CRASTIN® HR5330HFS
BK591 (C1)**

Version	Revision Date:	SDS Number:	Date of last issue: 04-15-2024
7.1	04-28-2025	300000004093	Date of first issue: 01-29-2024

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

Engineering measures : 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 : 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.
Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection

Remarks : Wear leather or cotton gloves when grinding, sawing, routing, drilling or sanding. When handling hot material, use heat resistant gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses with side-shields

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

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: pellets
Colour	: black
Odour	: ether-like
Odour Threshold	: 0.31 ppm Tetrahydrofuran
pH	: Not applicable
Melting point/ range	: > 392 °F / > 200 °C
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable

**changed NAM PROD from CRASTIN®
HR5330HFS BK591 PBT thermoplastic polyes-
ter resin (C1) to CRASTIN® HR5330HFS
BK591 (C1)**

Version	Revision Date:	SDS Number:	Date of last issue: 04-15-2024
7.1	04-28-2025	300000004093	Date of first issue: 01-29-2024

Flammability (solid, gas)	:	May form combustible dust concentrations in air during processing, handling or other means.
Self-ignition	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	> 1
Density	:	1.5 g/cm ³
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Decomposition temperature	:	> 572 °F / 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 Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	Stable at normal ambient temperature and pressure.
Possibility of hazardous reactions	:	Polymerization will not occur.
Conditions to avoid	:	Temperature > 300 °C 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

**changed NAM PROD from CRASTIN®
HR5330HFS BK591 PBT thermoplastic polyes-
ter resin (C1) to CRASTIN® HR5330HFS
BK591 (C1)**

Version	Revision Date:	SDS Number:	Date of last issue: 04-15-2024
7.1	04-28-2025	300000004093	Date of first issue: 01-29-2024

Incompatible materials	:	temperature limit. Decomposition is a function of both processing temperature and time at that temperature. Strong acids Strong bases Strong oxidizing agents
Hazardous decomposition products	:	Hazardous thermal decomposition products may include: Aldehydes Respirable particles. 1,3-butadiene Carbon dioxide (CO ₂) Carbon monoxide Tetrahydrofuran

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified due to lack of data.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified based on available information.

Product:

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

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

**changed NAM PROD from CRASTIN®
HR5330HFS BK591 PBT thermoplastic polyes-
ter resin (C1) to CRASTIN® HR5330HFS
BK591 (C1)**

Version	Revision Date:	SDS Number:	Date of last issue: 04-15-2024
7.1	04-28-2025	300000004093	Date of first issue: 01-29-2024

Aspiration toxicity

Not classified due to lack of data.

Further information**Product:**

Remarks : No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues	: 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	: Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

**changed NAM PROD from CRASTIN®
HR5330HFS BK591 PBT thermoplastic polyes-
ter resin (C1) to CRASTIN® HR5330HFS
BK591 (C1)**

Version	Revision Date:	SDS Number:	Date of last issue: 04-15-2024
7.1	04-28-2025	300000004093	Date of first issue: 01-29-2024

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations**49 CFR**

Not regulated as a dangerous good

Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Unspecified lead compounds	7439-92-1	< 0.1 %
----------------------------	-----------	---------

California Prop. 65

WARNING: This product can expose you to chemicals 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.

TSCA list

In compliance with TSCA-active Inventory requirements for commercial purposes.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency

**changed NAM PROD from CRASTIN®
HR5330HFS BK591 PBT thermoplastic polyes-
ter resin (C1) to CRASTIN® HR5330HFS
BK591 (C1)**

Version	Revision Date:	SDS Number:	Date of last issue: 04-15-2024
7.1	04-28-2025	300000004093	Date of first issue: 01-29-2024

Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04-28-2025

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.

US / EN

 Celanese CRAFTIN® HR5330HFS BK591 PBT thermoplastic polyester resin (C1)

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.

Celanese Ltd. Irving Texas
222 West Las Colinas Boulevard Suite 900N
IrvingTX
TX 75039

Product Information: '+1 972-443-4000

Transport: DOMESTIC NORTH AMERICA: 800-424-9300 INTERNATIONAL,
CALL +1 703-527-3887 (collect calls accepted): DOMESTIC NORTH AMERICA:
800-424-9300 INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

Version 7.1
Revision Date 04-28-2025
Issue Date 07-10-2025
Ref. 300000004093