

CRASTIN® 6144 NC010 PBT thermoplastic polyester resin (CH)

Version Revision Date: SDS Number: Date of last issue: -

1.0 04-07-2025 300000005819 Date of first issue: 04-07-2025

SECTION 1. IDENTIFICATION

Product name : CRASTIN® 6144 NC010 PBT thermoplastic polyester resin

(CH)

Product code : 00000000027048066

Manufacturer or supplier's details

Company name of supplier : Celanese Sales U.S. Ltd.

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, han-

dling or by other means, may form combustible dust concentra-

tions 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

from overheating or combustion.

If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Call a physician.



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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. None known.

Most important symptoms

delayed

and effects, both acute and

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 prod: :

ucts

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, protec- :

tive equipment and emer-

gency procedures

Avoid breathing dust.

Ensure adequate ventilation.

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 con-



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tainer 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.

SECTION 7. HANDLING AND STORAGE

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 parti- cles 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 parti- cles per cubic foot	OSHA Z-3
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH

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 require-



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ments must be followed whenever workplace conditions war-

rant 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 : natural colour

Odour : ether-like

Odour Threshold : 0.31 ppm

Tetrahydrofuran

pH : Not applicable

Melting point/ range : $> 392 \, ^{\circ}\text{F} \, / > 200 \, ^{\circ}\text{C}$

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 pro-

cessing, 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



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Relative vapour density : Not applicable

Relative density : > 1

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

Decomposition temperature

: Not applicable

: > 572 °F / 300 °C Thermal decomposition of the resin accelerates above tem-

perature 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 reac-

tions

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

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. 1,3-butadiene Acrylonitrile n-Butyl acrylate Carbon dioxide (CO2)

Carbon dioxide (CO2 Carbon monoxide

Styrene

Tetrahydrofuran



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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 due to lack of data.

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

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.

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



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Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

: 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

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 regu-

lations.

SECTION 15. REGULATORY INFORMATION



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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 : 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.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA list

No substances are subject to a Significant New Use Rule.

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

No substances are subject to TSCA 12(b) export notification requirements.

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 Min-

eral 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 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, Bioaccumu-



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lative 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

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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.

US / EN



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 Sales U.S. Ltd. 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)

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