

ZYTEL® HTN52G35EF NC010 high performance polyamide resin

Version 2.0

Revision Date 05/29/2015

Ref. 130000121260

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	: ZYTEL® HTN52G35EF NC010 high performance polyamide 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	: +1-800-441-7515 (outside the U.S. ++1 972-443-4000 E-mail address: HazCom
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

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category
Combustible dust

Label content

Pictogram : not required

Signal word : Warning

Hazardous warnings : May form combustible dust concentrations in air.

Hazardous prevention measures : not required

Other hazards

ZYTEL® HTN52G35EF NC010 high performance polyamide resin

Version 2.0

Revision Date 05/29/2015

Ref. 130000121260

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

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)

ZYTEL® HTN52G35EF NC010 high performance polyamide resin

Version 2.0

Revision Date 05/29/2015

Ref. 130000121260

- Unsuitable extinguishing media : No applicable data available.
- 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. (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

ZYTEL® HTN52G35EF NC010 high performance polyamide resin

Version 2.0

Revision Date 05/29/2015

Ref. 130000121260

accumulate on surfaces.

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. Consult the OSHA respiratory protection information located at 29CFR 1910.134. 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.

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.

ZYTEL® HTN52G35EF NC010 high performance polyamide resin

Version 2.0

Revision Date 05/29/2015

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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)			
Permissible exposure limit:	(OSHA)	5 mg/m3	8 hr. TWA Respirable fraction.
Permissible exposure limit:	(OSHA)	15 mg/m3	8 hr. TWA Total dust.
TLV	(ACGIH)	3 mg/m3	TWA Respirable particles.
TLV	(ACGIH)	10 mg/m3	TWA Inhalable particles.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
Form : pellets
Color : natural

Odor : none

Odor threshold : No applicable data available.

pH : Not applicable

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

Boiling point/boiling range : Boiling point/boiling range
Not applicable

ZYTEL® HTN52G35EF NC010 high performance polyamide resin

Version 2.0

Revision Date 05/29/2015

Ref. 130000121260

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : May form combustible dust concentrations in air.

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 : >360 °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.

ZYTEL® HTN52G35EF NC010 high performance polyamide resin

Version 2.0

Revision Date 05/29/2015

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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 > 360 °C (> 680 °F) Avoid prolonged exposure at or above the recommended processing temperatures. 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: traces of hydrogen cyanide, Aldehydes, Nitrogen oxides (NOx), Ammonia, Respirable particles., hexanediol , Carbon monoxide , Carbon dioxide, Benzene, Cyclopentanone

SECTION 11. TOXICOLOGICAL INFORMATION

ZYTEL® HTN52G35EF NC010 high performance polyamide resin

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).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

ZYTEL[®] HTN52G35EF NC010 high performance polyamide resin

Version 2.0

Revision Date 05/29/2015

Ref. 130000121260

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : No data is available on the product itself. Toxicity is expected to be 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 (US) Status : In compliance with TSCA Inventory requirements for commercial purposes.
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):
None known.

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

ZYTEL® HTN52G35EF NC010 high performance polyamide resin

Version 2.0

Revision Date 05/29/2015

Ref. 130000121260

carcinogens, mutagens or teratogens): None known.

California Prop. 65

: WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION

information datasheet for this product or the molding guide for this resin family.

Read the product

Revision Date : 05/29/2015

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.

Significant change from previous version is denoted with a double bar.



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Warning

Hazard statements: May form combustible dust concentrations in air.

Supplemental information: 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.

DuPont
974 Centre Road, Wilmington, DE 19805, USA

Product Information: +1-800-441-7515 (outside the U.S. ++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: Domestic NA: 800-424-9300 International, CALL +1 703-527-3887 (collect calls accepted)

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