ZYTEL® 101L NC010 nylon resin

Version 2.0
Revision Date 05/02/2016 Ref. 130000022424

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

1. IDENTIFICATION

Product name : ZYTEL® 101L NC010 nylon resin

Recommended use of the chemical and restriction on use

Recommended use : - Polymer - For manufacturing and research use only

Manufacturer or supplier's details

Company : DuPont Argentina S.R.L.
Street address : Av. Ingeniero Butty, 240
Buenos Aires Argentina
Telephone : 54-11-4021 4700

Emergency telephone number : (CIQUIME) 011 4613 1100
(CIQUIME) 0800 222 2933

2. HAZARDS IDENTIFICATION

Product hazard category

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

Other hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration
This product does not contain any components that require disclosure according to country regulations.		

4. FIRST AID MEASURES

First aid measures for different exposure routes

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.
Main symptoms and hazards	:	No information available.
Protection of first-aiders	:	No information available.
Notes to physician	:	No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water, Foam, Dry chemical, Carbon dioxide (CO2)
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: Carbon monoxide, Carbon dioxide
Specific firefighting procedures	:	Evacuate personnel and keep upwind of fire.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Spilled material is a slipping hazard.
Environmental precautions	:	Do not discharge to streams, ponds, lakes or sewers.
Methods for cleaning up	:	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.

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions : 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.

Precautions for safe handling : No information available.

Storage

Suitable storage conditions : Store in a cool, dry place. Keep container closed to prevent contamination. Keep in an area equipped with sprinklers.

Hygiene measures : No information available.

8. EXPOSURE PREVENTION MEASURES

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.

Control parameters

Dust (inhalable and respirable fraction)

TLV	(ACGIH)	3 mg/m3	TWA	Respirable particles.

Dust (inhalable and respirable fraction)

TLV	(ACGIH)	10 mg/m3	TWA	Inhalable particles.

Dust (inhalable and respirable fraction)

OEL	(Argentina)	10 mg/m3	CMP	Inhalable fraction.

Dust (inhalable and respirable fraction)

OEL	(Argentina)	3 mg/m3	CMP	Respirable fraction.

Biological standards	:	No information available.

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	:	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.
General protective measures	:	No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, form, colour, etc.)

Physical state	:	solid
Form	:	pellets
Colour	:	natural

Odour	:	none
Odour Threshold	:	no data available
pH	:	Not applicable
Melting point/freezing point		
Melting point/range	:	> 200 °C
Boiling point/boiling range		
Boiling point/boiling range	:	Not applicable
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Decomposition temperature	:	340 °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.
Auto-ignition temperature	:	Self ignition: Not applicable
Explosion limits		
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	Not applicable
Vapour density	:	Not applicable
Density		
Relative density	:	> 1

Solubility(ies)

Water solubility	:	insoluble
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	Not applicable
Volatility rate	:	Not applicable
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Stability	:	Stable at normal ambient temperature and pressure. Stable at normal ambient temperature and pressure.
Possible hazardous reactions under specific conditions	:	Polymerization will not occur.
Conditions to avoid	:	Temperature: > 340 °C 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.
Materials to avoid	:	Strong acids, Strong bases, Strong oxidizing agents
Hazardous decomposition products	:	Hazardous thermal decomposition products may include: Aldehydes, Nitrogen oxides (NOx), traces of hydrogen cyanide, Ammonia, Carbon monoxide, Carbon dioxide, Cyclopentanone

11. TOXICOLOGICAL INFORMATION

Acute toxicity	:	no data available
Skin corrosion/irritation	:	no data available
Serious eye damage/eye irritation	:	no data available
Respiratory sensitisation / Skin sensitisation	:	no data available
Mutagenicity	:	no data available
Carcinogenicity	:	no data available
Reproductive toxicity	:	no data available
Specific target organ toxicity - single exposure	:	no data available
Specific target organ toxicity - repeated exposure	:	no data available
Aspiration toxicity	:	no data available
Other	:	ZYTEL® 101L NC010 nylon resin: 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.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	:	no data available
Persistence and degradability	:	no data available
Bioaccumulation	:	no data available
Mobility in soil	:	no data available

Other adverse effects : ZYTEL® 101L NC010 nylon resin:

No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.

13. CONSIDERATIONS REGARDING FINAL DISPOSAL

Waste disposal methods : 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.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. INFORMATION ABOUT REGULATIONS

Not a dangerous substance according to GHS.

16. OTHER INFORMATION

Revision Date 05/02/2016

Zytel® is a registered trademark of DuPont.
The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company.

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.

Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.

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

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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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.