

ZYTEL® 70G33L NC010 nylon resin

Version 2.0

Revision Date 06/04/2012 Ref. 130000022623

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® 70G33L NC010 nylon resin

MSDS Number : 130000022623

Manufacturer : DuPont

1007 Market Street Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000) Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)

Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Exposure to dusts or the thermal decomposition products of this compound from heating may cause eye irritation with discomfort, tearing, or blurring of vision; or irritation of the upper respiratory passages, with coughing and discomfort.

Ingestion is not a likely route of exposure.

Following is known regulatory classification information on isolated substances.

Skin

Fiberglass : Causes skin irritation.

May cause: Mechanical irritation with temporary discomfort or pain, redness

or rash, itching, or swelling

Eyes

Fiberglass : Mechanical irritation of the eyes is possible.

May cause eye irritation.

May cause: Tearing, redness, or discomfort.

Inhalation

Fiberglass : May cause irritation of respiratory tract.

May cause: Cough

Repeated exposure

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Fiberglass : Adverse effects from repeated inhalation may include: Fibrosis with altered

lung function or difficulty breathing

Target Organs

Fiberglass : Lungs

Respiratory system

Carcinogenicity

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Polyhexamethylenediamine adipate	32131-17-2	>60%
Fiberglass	65997-17-3	<40 %
Lubricant		<3 %

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.

SECTION 4. FIRST AID MEASURES

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Skin contact : The material is not likely to be hazardous by skin contact, but cleansing 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.

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.

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

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties

Flash point : not applicable

Fire and Explosion Hazard : 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

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

Firefighting Instructions : Wear self-contained breathing apparatus and protective suit.

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.

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Spill Cleanup : Sweep up to prevent slipping hazard.

Accidental Release Measures : Do not discharge to streams, ponds, lakes or sewers.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Wash hands thoroughly after handling. Minimize the generation and

accumulation of dust. Do not breathe dust. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be

generated.

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

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. See Bulletin "Proper Use of Local Exhaust

Ventilation During Processing of Plastics".

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. 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.

Hand protection : Additional protection: When handling hot material, use heat resistant gloves.

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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.

Exposure Guidelines

Exposure Limit Values

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Dust (inhalable and respirable fraction)

TLV (ACGIH) 10 mg/m3

TWA Inhalable particles.

3 mg/m3

TWA Respirable particles.

PEL: (OSHA) 5 mg/m³

TWA Respirable fraction.

15 mg/m3 TWA Total dust.

Fiberglass

TLV (ACGIH) 5 mg/m3 TWA Inhalable fraction.

AEL * (DUPONT) 5 mg/m3 8 & 12 hr. TWA Non-fibrous particulate

and/or non-respirable fibres.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : pellets
Color : natural
Odor : none

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

Specific gravity : > 1 Water solubility : insoluble

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^{*} AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.



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SECTION 10. STABILITY AND REACTIVITY

Stability : Stable at normal temperatures and storage conditions.

Conditions to avoid : Temperature > 340 °C (> 644 °F)

Avoid prolonged exposure at or above the recommended processing

temperatures.

Incompatibility : 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

Hazardous reactions : Polymerization will not occur.

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.

Polyhexamethylenediamine adipate

Oral LD50 : > 7,500 mg/kg, rat

Skin irritation : human

non-irritant

Skin sensitization : human

Not a skin sensitizer.

Fiberglass

Inhalation 6 h LC50 : 250-300 fibers/cc, hamster

lung effects Inflammation

Inhalation : human

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Target Organs: Respiratory Tract Symptoms: Respiratory tract irritation

Skin irritation : No skin irritation, rabbit

Skin irritation, human

Dermatitis

Eye irritation : Mild eye irritation, rabbit

Eye irritation, human

Repeated dose toxicity : Inhalation

hamster

Biochemical changes in lung lavage fluid, Lungs, Inflammation

Carcinogenicity : Did not show carcinogenic effects in animal experiments.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Polyhexamethylenediamine adipate

: The substance is a polymer and is not expected to produce toxic

effects.

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 : Preferred options for disposal are recycling, incineration with energy recovery,

and landfill. 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.

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SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA Status : In compliance with TSCA Inventory requirements for commercial purposes.

SARA 313 Regulated

Chemical(s)

: 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 : Chemicals known to the State of California to cause cancer, birth defects or

any other harm: none known

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

carcinogens, mutagens or teratogens): None known.

SECTION 16. OTHER INFORMATION

Restrictions for use 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 H-50103-3 and

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DuPont CAUTION Regarding Medical Applications H-50102-3.

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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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