

ZYTEL ® Nylon resin

Ref. 150000000692 Revision Date 26.03.2021 Version 2.1 (replaces: Version 2.0) Issue Date 26.03.2021

This Product Safety Information Sheet is provided as general information for health and safety guidance.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name : ZYTEL ® Nylon resin

Types : EFE7350 (1); 79G13L, 79G13L (2); 80G14, 80G14A, 80G14AHS, 80G14HS,

8018

8018HS (3); EFE7340HS, FE270020, FE8018HS, R71713 (4); 80G25HS (5); 80G33HS1L, FE5422, 80G33L (6); 80G43HS1L, EFE8089, EFE8089B (7)

Recycling code : 1) ISO 11469 : >PA66-IGF7<; 2)ISO 11469 : >PA66-IGF13<; 3) ISO 11469 :

>PA66-IGF14<; 4) ISO 11469: >PA66-IGF15<; 5) ISO 11469: >PA66-IGF25<;

6) ISO 11469: >PA66-IGF33<; 7) ISO 11469: >PA66-IGF43<;

Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Polymer

Uses advised against : For manufacturing and research use only

Details of the supplier

Company : Performance Specialty Products Iberica S.L.U.

Avda. Diagonal, 571 ES-08029 Barcelona

Spain

Telephone : +34-98-512-4000

Telefax : +34-98-512-4090

E-mail address : sds-support@dupont.com

Emergency telephone number

Emergency telephone number : +(44)-870-8200418 (CHEMTREC)

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008 (CLP)

Not a classified substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements

Labelling according to Regulation (EU) 1272/2008 (CLP)



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Not a classified substance or mixture according to Regulation (EC) No. 1272/2008.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

No dangerous components to be mentioned according to Regulations (EC) No. 1907/2006 and (EC) No. 453/2010.

SECTION 4: First aid measures

Description of first aid measures

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.

SECTION 5: Firefighting measures

Extinguishing media

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

Special hazards arising from the substance or mixture

Specific hazards during : Large molten masses may ignite spontaneously in air. Water quenching is good



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firefighting

practice. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Failure or malfunction of temperature control systems on processing equipment, such as extruders, may create explosion hazards.

Hazardous combustion products:

Advice for firefighters

for firefighters

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

Further information : Evacuate personnel and keep upwind of fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions : Spilled material is a slipping hazard.

Environmental precautions

Environmental precautions : Do not discharge to streams, ponds, lakes or sewers.

Methods and materials for containment and cleaning up

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.

SECTION 7: Handling and storage

Precautions for safe handling

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 dust generation and accumulation. Routine housekeeping should be instituted

to ensure that dusts do not accumulate on surfaces.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in a cool, dry place. Keep container closed to prevent contamination.

Keep in an area equipped with sprinklers.



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SECTION 8: Exposure controls/personal protection

If sub-section is empty then no values are applicable. For further information on any control parameters provided, please refer to the relevant regulation.

Exposure controls

Engineering measures : When hot processing this material, use local and/or general exhaust ventilation

to maintain the concentration of vapors and fumes below exposure limits. See Bulletin "Proper Use of Local Exhaust Ventilation During Processing of Plastics".

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.

Hand protection

Leather gloves When handling hot material, use heat resistant gloves.

Skin and body protection

If there is a potential for contact with hot/molten material wear heat resistant

clothing and footwear.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators. 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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form : pellets

Colour : various

Odour : none

pH : Not applicable

Melting point/range : > 200 °C

Boiling point/boiling range : Not applicable

Flash point : Not applicable

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

handling or other means.



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Thermal decomposition : > 340 °C, Decomposition can occur below the recommended

processing temperature limit., Decomposition is a function of both

processing temperature and time at that temperature.

Lower explosion limit/ Lower

flammability limit

: Not applicable

Upper explosion limit/ upper

flammability limit

: Not applicable

Vapour pressure : Not applicable

Relative density : > 1

Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : Not applicable

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Relative vapour density : Not applicable

Evaporation rate : Not applicable

Other information

No other data to be specially mentioned.

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 : > 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.

Incompatible materials : Strong acids

Strong bases



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Strong oxidizing agents

Hazardous decomposition

products

Hazardous thermal decomposition products may include:

Aldehydes

Nitrogen oxides (NOx)

Hydrogen cyanide (hydrocyanic acid)

Ammonia

Carbon monoxide Carbon dioxide Cyclopentanone

SECTION 11: Toxicological information

The product contains no substances classified as hazardous to health in concentrations which should be taken into account according to EC directives.

SECTION 12: Ecological information

The product contains no substances classified as hazardous to the environment in concentrations which should be taken into account.

SECTION 13: Disposal considerations

Waste treatment methods

Product : Can be incinerated, when in compliance with local regulations. 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.

Dispose of in accordance with local regulations.

SECTION 14: Transport information

ADR

14.1. UN number: Not applicable 14.2. UN proper shipping name: Not applicable 14.3. Transport hazard class(es): Not applicable 14.4. Packing group: Not applicable

14.5. Environmental hazards: none

14.6. Special precautions for user:

Not classified as dangerous in the meaning of transport regulations.

IATA_C

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14.5. Environmental hazards:

14.6. Special precautions for user:

Not classified as dangerous in the meaning of transport regulations.



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IMDG

14.1. UN number:

14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
Not applicable
Not applicable
Not applicable

14.5. Environmental hazards: none

14.6. Special precautions for user:

Not classified as dangerous in the meaning of transport regulations.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations:

No specific information about other regulations/legislation to be mentioned.

SECTION 16: Other information

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-No. Chemical Abstracts Service number CLP Classification, Labelling and Packaging

EbC50 Concentration at which 50% reduction of biomass is observed

EC50 Median effective concentration

EN European Norm

EPA Environmental Protection Agency

ErC50 Concentration at which a 50% inhibition of growth rate is observed

EyC50 Concentration at which 50 % inhibition of yield is observed

IATA_C International Air Transport Association (Cargo)

IBCInternational Bulk Chemical CodeICAOInternational Civil Aviation OrganizationISOInternational Standard OrganizationIMDGInternational Maritime Dangerous Goods

LC50 Median Lethal Concentration

LD50 Median Lethal Dose

LOEC Lowest Observed Effect Concentration

LOEL Lowest observed effect level

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.o.s. Not Otherwise Specified

NOAEC No Observed Adverse Effect Concentration

NOAEL No observed adverse effect level NOEC No Observed Effect Concentration

NOEL No Observed Effect Level



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OECD Organisation for Economic Co-operation and Development OPPTS Office of Prevention, Pesticides and Toxic Substances

PBT Persistent, Bioaccumulative and Toxic

STEL Short term exposure limit
TWA Time Weighted Average (TWA):

vPvB very Persistent and very Bioaccumulative

Restrictions on 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 and DuPont CAUTION Regarding Medical Applications.

Further information

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

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

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