

ZYTEL ® Nylon resin

Ref. 150000000662 Revision Date 26.10.2018 Version 2.1 (replaces: Version 2.0) Issue Date 27.11.2018

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 : 101, 101F, 101L, WRF101A, 103FHS, 103FHSA, 103HSL, 105, 105F, 122L,

132F, 133L, 135F, 136F, 137F, 145, 42A, E101, E101L, E103HSL, E40, E41,

E41.

E41HSB, E42A, E42L, 45HSB, E50, E50L, E51HSB, E53, E55, FE13050, FE3071, FE310036, FE3218, FE3757, FE3758, FE3791, TRA100L, FE240029

Recycling code : ISO 11469 : >PA66<

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

Use of the Substance/Mixture : Resin for moulding and/or extrusion

Details of the supplier

Company : DuPont Iberica S.L.

Avda. Diagonal, 571 ES-08029 Barcelona

Spain

Telephone : +34-98-512-4000

Telefax : +34-98-512-4090

E-mail address : sds-support@che.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 hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements

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

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



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Other hazards

None.

SECTION 3: Composition/information on ingredients

Chemical nature of the

substance/mixture

: Polyamide 66

Additives

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

General advice : Remove from exposure, lie down. Never give anything by mouth to an

unconscious person. No hazards which require special first aid measures. If a person vomits when lying on his back, place him in the recovery position.

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or

combustion. Consult a physician after significant exposure.

Skin contact : Cool skin rapidly with cold water after contact with molten material. Do not peel

polymer from the skin. Obtain medical attention.

Eye contact : Flush eyes with water as a precaution. Obtain medical attention.

Ingestion : No hazards which require special first aid measures. Drink water as a

precaution.

SECTION 5: Firefighting measures

Extinguishing media

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

Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Large molten masses may ignite spontaneously in air. Water quenching is good practice. Under conditions giving incomplete combustion, hazardous gases



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produced may consist of: Carbon monoxide Carbon dioxide (CO2) (see also

section 10)

Advice for firefighters

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus. Wear suitable

protective equipment.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in

accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses. Solid polymer burns only with difficulty (IEC 60695-11-

10: V0-V1-V2)

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions : Ventilate the area. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses. Do not

contaminate surface water.

Methods and materials for containment and cleaning up

Methods for cleaning up : Clean up promptly by sweeping or vacuum. Sweep up or vacuum up spillage

and collect in suitable container for disposal.

Other information : Use mechanical handling equipment.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling : Protect from contamination. When opening containers, avoid breathing vapours

that may be emanating. Open container only in well-ventilated area. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. General precaution for all plastics and elastomers: For personal protection see section 8. In case of insufficient ventilation, wear suitable respiratory equipment. No special handling advice

required.

Advice on protection against fire and explosion

: Take necessary action to avoid static electricity discharge (which might cause

ignition of organic vapours).

Dust explosion class : no data available

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No special storage conditions required. Keep container tightly closed in a dry

and well-ventilated place. Protect from contamination.



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Further information on

storage conditions

none

Advice on common storage No special restrictions on storage with other products.

Other data No decomposition if stored and applied as directed.

SECTION 8: Exposure controls/personal protection

Control parameters

If sub-section is empty then no values are applicable.

Components with workplace control parameters

Туре	Control	Update	Regulatory basis	Remarks
Form of exposure	parameters			
	(Expressed as)			

Dust (inhalable and respirable fraction)

Dast (illialable and respirable fraction)						
Time Weighted Average (TWA): Respirable dust.	4 mg/m3	10 2010	UAE. Dubai. OELs. Maximum Allowable Limits for Indoor Air Pollutants. Industrial Operation Regulation IO-11.0: Appendix, Tables 2 & 2A			
Time Weighted Average (TWA): Inhalable dust.	10 mg/m3	10 2010	UAE. Dubai. OELs. Maximum Allowable Limits for Indoor Air Pollutants. Industrial Operation Regulation IO-11.0: Appendix, Tables 2 & 2A			

Exposure controls

Safety glasses with side-shields Wear tightly fitting chemical splash goggles and Eye protection

face shield when possibility exists for eye and face contact due to spattering or

splashing of molten material.

Hand protection Material: Heat insulating gloves

Protective gloves (Type: Kevlar® - heat resistant, use possible until worn out)

Skin and body protection If there is a potential for contact with hot/molten material wear heat resistant

clothing and footwear. Regular cleaning of equipment, work area and clothing.

Protective measures No special protective equipment required.

Wash hands before breaks and at the end of workday. General precaution for all Hygiene measures

plastics and elastomers: Do not breathe fumes evolved from hot polymer.

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

appropriate certified respirators. Suitable respiratory equipment: Half mask with

a particle filter FFP2/FFP3 (EN149)

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties



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Form : pellets

Colour : various

Odour : none

pH : Not applicable

Melting point/range : 255 - 265 °C

Flash point : Not applicable

Ignition temperature : 430 °C

Thermal decomposition : > 340 °C

Density : 1,12 - 1,16 g/cm3 , Method: ISO 1183

Water solubility : insoluble

Other information

No other data to be specially mentioned.

SECTION 10: Stability and reactivity

Possibility of hazardous

reactions

: None. Further information : During drying, cleaning and moulding, small amounts of hazardous gases and/or particulate matter may be released. These

may irritate eyes, nose and throat. Large molten masses may give off hazardous gases. Water quenching is good practice. Stable under normal

conditions.

Conditions to avoid : Avoid heating for prolonged periods above the recommended upper processing

limit.

Incompatible materials : Strong acids and oxidizing agents

Hazardous decomposition

products

: Acrolein Aldehydes

Ammonia Cyclopentanone

Hydrogen cyanide (hydrocyanic acid)

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.



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SECTION 13: Disposal considerations

Waste treatment methods

Product : Like most thermoplastic plastics the product can be recycled. Where possible

recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled, when in compliance with local regulations. Do not contaminate ponds, waterways or

ditches with chemical or used container.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for

recycling or disposal.

European Waste Catalogue

number

: 07 02 99: Wastes not otherwise specified.

SECTION 14: Transport information

ADR

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.

IATA C

14.1. UN number:

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

14.5. Environmental hazards: none

14.6. Special precautions for user:

Not classified as dangerous in the meaning of transport regulations.

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



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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

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

Before use read DuPont's safety information.

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An Exposure Scenario (ES) is not required.

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



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