

**ZYTEL[®] Nylon resin**

Version 2.12

Revision Date 28.10.2010

Ref.150000000687

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

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product name : ZYTEL[®] Nylon resin

Types : 114HSLA, 490, 490HS, CFE8005HS, EFE1091, EFE1091A, EFE8073, EFE8073HS, FE4200, FE8217HS,
: ST800HSL, ST801, ST801AHS, ST801HS, ST801AW, ST801W, XA382

Recycling code : ISO 11469 : >PA66-HI<

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

Company : DuPont de Nemours International S.A.
2, chemin du Pavillon
CH-1218 Le Grand-Saconnex / GE
Switzerland

Telephone : +41-22-717.5111

Telefax : +41-22-717.5109

Emergency telephone number : +44-(0)8456-006.640

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

2. HAZARDS IDENTIFICATION

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the mixture : Polyamide 66, Additives

4. 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

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- 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.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂), Dry powder, Foam, Water,
- Specific hazards during fire fighting : Large molten masses may ignite spontaneously in air. Water quenching is good practice. Under conditions giving incomplete combustion, hazardous gases produced may consist of: Carbon monoxide Carbon dioxide (CO₂) (see also section 10)
- Special protective equipment for fire-fighters : 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. Burns after ignition without external heat source (IEC 60695-11-10 : HB).

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ventilate the area. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Try to prevent the material from entering drains or water courses. Do not contaminate surface water.
- Methods for cleaning up : Clean up promptly by sweeping or vacuum. Sweep up or vacuum up spillage and collect in suitable container for disposal.
- Additional advice : Use mechanical handling equipment.

7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : Protect from contamination. When opening containers, avoid breathing vapours that may be emanating. 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. Open container only in well-ventilated area.
- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

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Dust explosion class : no data available

Storage

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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Type Form of exposure	Control parameters	Update	Basis
Dust (inhalable and respirable fraction)		TWA Inhalable dust.	10 mg/m ³	2007	EH40 WEL
		TWA Respirable dust.	4 mg/m ³	2007	EH40 WEL

Personal protective equipment

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)

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

Eye protection : Safety glasses with side-shields

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.

Hygiene measures : Wash hands before breaks and at the end of workday. General precaution for all plastics and elastomers: Do not breathe fumes evolved from hot polymer.

Protective measures : No special protective equipment required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : pellets,

Colour : various,

**ZYTEL® Nylon resin**

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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/cm ³ , Method: ISO 1183
Water solubility	:	, insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid	:	Avoid heating for prolonged periods above the recommended upper processing limit.
Materials to avoid	:	Strong acids and oxidizing agents
Hazardous decomposition products	:	Acrolein, Aldehydes, Ammonia, Cyclopentanone, Hydrogen cyanide (hydrocyanic acid)
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.

11. TOXICOLOGICAL INFORMATION**12. ECOLOGICAL INFORMATION****13. DISPOSAL CONSIDERATIONS**

Product	:	Wastes not otherwise specified. Can be landfilled, when in compliance with local regulations. If recycling is not practicable, dispose of in compliance with local regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Waste disposal number: 15 01 02; 15 01 01

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14. TRANSPORT INFORMATION

Further information : Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
The product does not need to be labelled in accordance with EC directives or respective national laws.

National legislation

Water contaminating class : nwg not water endangering
(Germany)

16. OTHER INFORMATION**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 H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

Further information

All chemical constituents are listed in:, EINECS

Before use read DuPont's safety information.

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

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