

## ZYTEL<sup>®</sup> FR50 NC010 nylon resin

Version 3.1 Document no. 130000023218 Revision Date 28.06.2021 Issue Date 13.06.2023

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

1. IDENTIFICATION OF THE S	SUBS	TANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product name	:	ZYTEL <sup>®</sup> FR50 NC010 nylon resin
Recommended use of the	e che	mical and restriction on use
Recommended use	:	Polymer
Restrictions on use	:	For manufacturing and research use only
Manufacturer, importer, s	suppl	ier, representative office
Company	:	Celanese (Shanghai) International Trading Co., Ltd
Street address	:	4560 Jinke Road, Zhangjiang, Pudong Shanghai, China 201210
Telephone	:	86-21-38619288
E-mail address		HazCom@celanese.com
		-
Emergency telephone	:	CHEMTREC International: +1-703-527 3887, +86 532 8388-9090 (China, 24h)
number		
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### 2. HAZARDS IDENTIFICATION

### Product hazard classification

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS). Endpoints which are not classified, cannot be classified or are not applicable are not shown.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

### Components

This product does not contain any components that require disclosure according to country regulations.

4. 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.



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Most important symptoms/effects, acute and delayed	:	No information available.	
Protection of first-aiders	:	No information available.	
Notes to physician	:	No information available.	
FIREFIGHTING MEASURES			
Suitable extinguishing media	:	Water, Foam, Dry chemical, Carbon dioxide (CO2)	
Specific hazards	:	Combustible . Large molten masses may ignite spontal quenching is good practice. Minimize the generation ar Failure or malfunction of temperature control systems of such as extruders, may create explosion hazards. Haza products may include: (see also section 10) Carbon monoxide, Carbon dioxide	nd accumulation of dust. on processing equipment,
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus and protective	e suit.
Specific extinguishing methods	:	No information available.	
Further information	:	Evacuate personnel and keep upwind of fire.	
ACCIDENTAL RELEASE ME	ASL	RES	
Personal precautions, protective equipment and emergency procedures	:	Spilled material is a slipping hazard.	
Environmental precautions	:	Do not discharge to streams, ponds, lakes or sewers.	
Methods and materials for containment and cleaning up	:	Spills of fine material should be cleaned using gentle si Cleaning methods (e.g. compressed air) which can ger combustible dust clouds should not be used. Dust depo to accumulate on surfaces, as these may form an explo- released into the atmosphere in sufficient concentration tools.	nerate potentially osits should not be allowed osive mixture if they are
HANDLING AND STORAGE			
Handling			

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

in an area equipped with sprinklers.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

conditions

Applicable occupational exposure limits are listed below.

Dust (inhalable and respirable fraction)				
TWA	3 mg/m3 (Respirable particles.)	MY PEL (2000-03)		
TWA	10 mg/m3 (Inhalable particulates)	MY PEL (2000-03)		
TWA	3 mg/m3 (Respirable particulate matter)	ACGIH (03 2014)		
TWA	10 mg/m3 (Inhalable particulate matter)	ACGIH (03 2014)		

### **Biological occupational exposure limits**

No biological exposure limit values are applicable.

**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.

### 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. Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.
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.

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Skin protection	:	If there is a potential for contact with hot/molten material clothing and footwear.	wear heat resistant
Hygiene measures	:	No information available.	
9. PHYSICAL AND CHEMICAL	PRC	PERTIES	
Appearance (Physical stat	te, fo	orm, colour, etc.)	
Physical state	:	solid	
Form	:	pellets	
Colour	:	natural	
Odour	:	none	
Odour Threshold	:	Not applicable	
рН	:	Not applicable	
Melting point/freezing poir Melting point/range	nt :	> 200 °C	
Initial boiling point and bo Boiling point/boiling range	oiling :	range Not applicable	
Flash point	:	Not applicable	
Evaporation rate	:	Not applicable	
Flammability (solid, gas)	:	May form combustible dust concentrations in air during p other means.	processing, handling or
Upper/lower flammability (	or e	plosive limits	
Upper explosion limit	:	Not applicable	
Lower explosion limit	:	Not applicable	
Vapour pressure	:	Not applicable	
Vapour density	:	Not applicable	
<b>Density</b> Specific gravity (Relative density)	:	> 1	
<b>Solubility(ies)</b> Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	Not applicable	
Auto-ignition temperature			

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Auto-ignition temperature	:	Not applicable	
Decomposition temperature	:	>340 °C Thermal decomposition of the resin accelerates a Decomposition can occur below the recommende Decomposition is a function of both processing te temperature.	ed processing temperature limit.
Viscosity Viscosity, kinematic	:	Not applicable	
Viscosity, dynamic	:	Not applicable	
Molecular weight	:	No information available.	
Oxidizing properties	:	No information available.	
STABILITY AND REACTIVIT	ГҮ		
Reactivity	:	Stable at normal ambient temperature and pressu	ure.
Chemical stability	:	Stable at normal ambient temperature and pressu	ure.
Possibility of hazardous reactions	:	Polymerization will not occur.	
Conditions to avoid	:	Temperature: > 340°C Avoid prolonged exposure at or above the recommender temperatures. Decomposes on heating. At temperatures above the "conditions to avoid" to decomposition of the resin accelerates. Decomposition can occur below the recommender Decomposition is a function of both processing ter temperature.	emperature, thermal ed processing temperature limit.
Materials to avoid	:	Strong acids, Strong bases, Strong oxidizing age	nts
Hazardous decomposition products	:	Hazardous thermal decomposition products may Aldehydes, Nitrogen oxides (NOx), traces of hydr	
		hydrogen bromide, Hydrogen chloride Carbon mo Cyclopentanone	

### 11. TOXICOLOGICAL INFORMATION Acute toxicity

No information available.

### Skin corrosion/irritation

No information available.

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No information available.	
Respiratory or skin sensitisation No information available.	
Germ cell mutagenicity No information available.	
Carcinogenicity No information available.	
<b>Reproductive toxicity</b> No information available.	
Specific Target Organ Toxicity No information available.	
Aspiration hazard No information available.	
Other ZYTEL <sup>®</sup> FR50 NC010 nylon resin	: No data is available on the product itself. For additional toxicity data, write to the company address or call the no emergency number shown in Section 1.
ECOLOGICAL INFORMATION	
Ecotoxicity effects No information available.	
Persistence and degradability No information available.	
<b>Bioaccumulation</b> No information available.	
<b>Mobility in soil</b> No information available.	
Other adverse effects ZYTEL <sup>®</sup> FR50 NC010 nylon resin	: No data is available on the product itself. Toxicity is expected to be lo based on insolubility in water.



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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. Incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.
Contaminated packaging	:	Dispose of in accordance with local regulations.

### **14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

IMDG		
UN number	:	Not applicable
UN proper shipping	:	Not applicable
name		Not oppliaable
Transport hazard class	÷	Not applicable
Packing group	÷	Not applicable
Marine pollutant	:	Not applicable
ΙΑΤΑ		
UN number	:	Not applicable
UN proper shipping	:	Not applicable
name		
Transport hazard class	:	Not applicable
Packing group	:	Not applicable
Special precaution which a	:	Not applicable
user to be aware of or		
needs to comply with in		
connection with transport		
or conveyance either within		
or outside their premises		
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### **15. REGULATORY INFORMATION**

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

### **16. OTHER INFORMATION**

#### References

SDS Number: 130000023218

### **Revision Date/Version**

Date of first preparation	: 19.03.2014
Revision Date	: 28.06.2021
Version	: 3.1



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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.

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

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.