Recron <sup>®</sup> Texturised Yarn		Safety data sheet (According to Regulation (EC) 1907/2006)			Reliance	
Rec	ron <sup>®</sup> Polyester T	exturised	rarn		Polyester Sector	
1.	IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY/				NDERTAKING	
1.1	Identification of the produ	uct:				
	Product name:	Recron <sup>®</sup> Poly	vester Textu	rised Yarn		
	Product types:	Recron <sup>®</sup> -Semidull, Recron <sup>®</sup> -FeelFresh		ecron <sup>®</sup> -Superbright <sup>®</sup> , Recron <sup>®</sup>	<sup>o</sup> - Cotluk <sup>®</sup> ,	
1.2	Use of the product:	Production of text	tile products.			
1.3	Company/ Undertaking id	entification				
1.3.1	Manufacturer:		<sup>.)</sup> ate Park, Buildin bli Railway Statio 00 701, INDIA 11264	g No. 8, 'B' Wing, First Flo on, Thane Belapur Road,	or,	
1.3.2	Emergency telephone:	E-mail address of person responsible for the Safety Data Sheet: <u>girish.c.desai@ril.com</u> +91-261-2835050 OR +91-261-2835056 (24 x 7) Site Shift Manager, Hazira Division				
1.4	REACH Only Representative	Steptoe & Johns 240 Avenue Loui Tel: +322626050	ttn: Mr James Searles <b>teptoe &amp; Johnson LLP</b> 40 Avenue Louise, 1050 Brussels, Belgium el: +3226260500, Fax: +3226260510 mail: <u>jsearles@steptoe.com</u>			
2.	HAZARDS IDENTIFIC	ATION				
-	Hazard Codes:	Not applicable				
	Risk phrases:	Not applicable				
	Safety phrases:	Not applicable				
This product is not considered hazardous or toxic. The hazard Polymer dust and spinfinish fumes may represent a fire hazard ignition sources.						
3.	COMPOSITION/ INFO	RMATION ON IN	NGREDIENTS	;		
3.1	Composition:					
	Chemical identity		CAS No	EINECS/ ELINCS No	Concentration	
	Polymer (Polyethylene tere	phthalate)	25038-59-9	Not listed	> 92%	
	Additives (Titanium dioxide	, colourants, etc.)	-	-	< 4%	
	Spinfinish and coning oil		-	-	< 4%	
	Hazardous ingredient				None	
3.2	Classification according	to 1999/45/EC:	Not applicable	(not a dangerous prepara	tion)	
3.3	<b>Remarks on special components:</b> The products and their constituents are not dangerous. The products do contain oil that serves as a processing aid and may generally be removed in an aqueous medium, if so required.					

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4.	I. FIRST AID MEASURES				
4.1	Inhalation:	Inhalation of fibre dust and finish decomposition pro avoided by hood suction and fresh air ventilation. In c or other symptoms the person should seek fresh air a see a physician.	ase of coughing		
4.2	Skin contact:	Wash with soap and water. If irritation develops, consult a physician.			
4.3	Eye contact:	The eyes should be washed immediately with ple irritation continues, consult a physician.	enty of water. If		
4.4	Ingestion:	Do not induce vomiting. Call in a physician and sho sheet.	ow him this data		
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5.	FIRE-FIGHTING MEASURES				
5. 5.1	FIRE-FIGHTING MEASURES Burning behaviour:				
		Not determined			
	Burning behaviour:	Not determined Not applicable. Product burns in fire.			
	Burning behaviour: Flammable class:				
	<b>Burning behaviour:</b> Flammable class: Flash point:	Not applicable. Product burns in fire.			
	<b>Burning behaviour:</b> Flammable class: Flash point: Self-ignition temperature:	Not applicable. Product burns in fire. Data not available	elow)		
5.1	Burning behaviour: Flammable class: Flash point: Self-ignition temperature: Decomposition temperature:	Not applicable. Product burns in fire. Data not available > 300°C	,		
5.1	Burning behaviour: Flammable class: Flash point: Self-ignition temperature: Decomposition temperature: Suitable extinguishing media: Extinguishing media which must	Not applicable. Product burns in fire. Data not available > 300°C Dry Chemical Powder, CO <sub>2</sub> or Water Spray (see 5.3 b	rt circuit. t a fire hazard at e major		

Use normal personal protection.
In case of accidental spills, do not allow entering drains and waterways. When picked up, treat material as prescribed under section 13 (Disposal considerations).
Clean up by vacuuming, physical picking or mechanical means.
If cleaning up involves the use of water, the wastewater should be given the appropriate treatment in an effluent treatment plant, in line with local regulations.

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7.	HANDLING AND STORAG	E
7.1	Handling:	Normal handling and processing does not require special technical protective measures. Avoid formation of dust.
		Accumulation of fibre dust may represent at sufficient concentrations a fire and explosion hazard. Remove ignition sources. Beware of electrostatic charges.
		If subsequent processing involves the use of water, the wastewater should be given the appropriate treatment in an effluent treatment plant, in line with local regulations.
7.2	Storage:	Store at ambient temperatures.
		Bobbins/ beams/ cartons must be stored in line with existing provisions. Existing fire protection measures have to be followed.
		Do not store near flame, ignition sources, direct sunlight or incompatible materials. Maintain good housekeeping to control dust accumulations.
8.	EXPOSURE CONTROLS /	PERSONAL PROTECTION
8.1	Exposure limit values:	Comply with national occupational threshold values for dust. According to TRGS 900 (Germany) there are two values:
		a) 3 mg/m³ for fine dust b) 10 mg/m³ for coarse dust

		b) 10 mg/m <sup>3</sup> for coarse dust
8.2	Exposure controls:	Avoid accumulation of and contact with polymer dust and finish decomposition products by hood suction, sufficient fresh air supply and proper house keeping.

## 8.2.1 Occupational exposure controls:

			No special measures required, except for fire or insufficient hood suction / fresh air supply (see 4 and 5).
	b) Hand protection:		Protective gloves are required while cutting carton straps or filament waste.
	c) Eye protection:		Wear safety glasses (e.g. especially while cutting bale or carton straps).
	d) Skin protection:		No special measures required. Yarns that are processed at high speeds may cause abrasions or cuts. Appropriate protective measures are recommended.
8.2.2	Environmental exposure controls:		Exhausted polymer dust and finish decomposition products shall be kept back efficiently by adequate filter systems.

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9.	PHYSICAL AND	CHEMICAL PROPERTIES		
9.1	General information	1		
	Appearance	Form: Bobbin, Beam		
	Colour	Raw-white, white or dyed		
	Odour	Odourless		
9.2	0.2 Important health, safety and environmental information			
	рН	Not applicable		
	Melting point/range	240 - 260°C		
	Flash point	Data not available		
	Flammability	Data not available		
	Explosive properties	Data not available		
	Oxidising properties	None		
	Vapour pressure	Not applicable		
	Relative density	$1.3 - 1.4 \text{ g/cm}^3$		
	Solubility	Insoluble in common solvents.		
	Water solubility	Insoluble		
	Partition coefficient:	Not applicable		
	Viscosity	Not applicable		
	Vapour density	Not applicable		
	Evaporation rate	Not applicable		
10.	STABILITY AND	REACTIVITY		
10.1	Conditions to avoid	: Material is stable under normal conditions.		
		Temperatures above 300°C lead to thermal decomposition (see also 10.3)		
10.2	Materials to avoid:	Strong oxidation agents as well as strong acids and caustic will decomponent polyester.	ose	
		Acetic anhydride, acetone, aniline, benzene, chloroform, chromic ac cyclohexanone, dimethylformamide, dioxane, ethyl acetate, methyl ei ketone, methylene chloride, phenol, tetrahydrofuran, trichloroethyle triethanolamine, caustic soda.	thyl	
10.3	Hazardous decomposition pro	Above the decomposition temperature, the major volatiles will be terephthali acid, oligomers of PET, carbon dioxide, carbon monoxide, acetaldehyde, oxides of Phosphorus and low molecular weight alcohols/ aldehydes.	ic	
		If heated to 150-250°C during processing, the filament lubricants can degra and generate off gases, which may contains small amounts of chemicals so as aldehydes, alcohols, acetic acid, acetone, etc.		
		We are not aware of chemicals such as these reaching concentrations to present a serious health hazards. However, information on toxic effects a recommended exposure limits of these and other chemicals can be found the most recent edition of the ACGIH documentation of threshold limit value	and d in	
		When Polyester Filament Yarn is burned, no unusual combustion gases have been observed, and its combustion products are similar to those of ot organic materials composed of the same elements.		

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11.	TOXICOLOGICAL INFORMATION				
11.1	Acute toxicity	Low oral toxicity			
11.2	Inhalation	tion Low acute toxicity. Dusts and vapours or fumes evolved during therm processing may cause irritation to the respiratory system.			
11.3	Ingestion	Data not available			
11.4	Skin irritation	No evidence of irritant effect from normal handling and use.			
11.5	Eye irritation	Dust and fumes generated during processing may have irritant effect on eyes. Permanent damage is unlikely.			
	Recron <sup>®</sup> Polyester Filament Yarn is a non-toxic man-made fibre. Proper use has not been associated with any special hazard or any detrimental effects on health. It meets the requirements of Oeko-Tex standard 100 (Class-1), indicating the absence of harmful substances.				
12.	ECOLOGICAL I	NFORMATION			
12.1	Eco-toxicity:	Low toxic to aquatic organisms. The yarn product can be separated out mechanically. Some finish components may vaporize or decompose at temperatures above 130°C.			
		If subsequent processing involves the use of water, the wastewater should be given the appropriate treatment in a purifying plant, in line with local regulations.			
12.2	Mobility:	The product is insoluble in water. Due to their negligible solubility in water and high molecular weight, they are expected to have a low BOD and will no cause oxygen depletion in aquatic systems.			
12.3	Persistence and degradability:	nd The product is non-biodegradable in soil.			
12.4	Bio accumulative potential:				
12.5	Other adverse effects: Unlikely to affect biological treatment processes.				
13.	DISPOSAL CONSIDERATIONS				
	Disposal of Polyester product does not pose any specific danger.				
	It is recommended that Polyester Filament varns & waste be recycled.				
	If recycling is not possible, Polyester waste yarns & waste can be disposed of in a suitable refuse installation or incinerated subject to local regulations.				
14.	TRANSPORT IN	IFORMATION			
14.1	UN number:	Not applicable			
14.2	Class/ Packing gro	bup: Not restricted			
14.3	Marine pollutant:	None			
14.4	International Trans Regulations:	sport Not classified as dangerous for transport			
14.5	Road / Rail (ADR /	RID): Not restricted			
14.6	Sea (IMDG):	Not restricted			
14.7	Air (ICAO / IATA): Not restricted				

Recron Safety data sheet Reliance Texturised Yarn (According to Regulation (EC) 1907/2006) Industries Limited Polyester Recron<sup>®</sup> Polyester Texturised Yarn Sector 15. **REGULATORY INFORMATION** Recron® Polyester products do not require hazard warning labels in accordance with EC directives. Risk phrase(s): Not applicable Not applicable Safety phrase(s): 16. **OTHER INFORMATION** 16.1 Recommended restrictions on use: This safety data sheet is provided for the products and their applications as specified in Section 1. The safety data sheet is not written with the individual end-user in mind. It is recommended that supplementary information be requested if an unusual application of these products is intended. Consult the manufacturer if the product(s) is to be used for special applications (such as, but not limited to, the food, hygienic, medical or surgical sectors) or for new end-uses. 16.2 Further information: Recron® Polyester Textured Yarn is an article made of man made fibres and is not subject to European Regulation (EC) 1907/2006 on registration, evaluation and authorization of chemical substances (REACH). Safety Data Sheets or Chemical Safety Reports according to Art. 31 of this regulation are therefore not required. This data sheet was established following Annex II of this regulation. The raw materials and auxiliaries used for the manufacturing of Recron® Polyester Texturised Yarn are predominantly concerned by this regulation. Reliance will track the status of the registration and evaluation of these materials. 16.3 **Disclaimer:** This Safety Data Sheet and the health, safety and environmental information it contains are intended to provide a summary of our knowledge and guidance regarding use of the designated Product. Its contents are offered in good faith as accurate and complete as of the date specified below, but without guarantee. The data herein applies only to the Product sold by entities of the Reliance group and not to products sold by others. It relates only to the Product and does not relate to its use in combination with any other product or material or in any process. Local laws and regulations and conditions of use and suitability of the product for particular uses are beyond the control of Reliance; all risks of use, storage, handling, transportation and disposal of the Product are therefore assumed by the user and Reliance expressly disclaims all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the Product. Reliance shall not be responsible for any damage or injury resulting from abnormal use of the Product, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the Product. Appropriate warnings and safe handling procedures should be provided to all handlers and users. In the case of a user in the European Union, as per Article 34 of REACH Regulation (EC) No. 1907/2006, user shall communicate to Reliance any new information on hazardous properties of the Product and/or new information relevant to risk management measures for the identified uses. Alteration or re-publication of this document in whole or part is strictly prohibited. 16.4 Revisions: Version: 1.1 - Contact details of "REACH" Only Representative included as section 1.4. Manufacturer office address changed. Version: 1.2 - Product types included in section 1.1

Version: 1.3 – Re-affirmed. Version: 1.4 – Re-affirmed.