Recron		Safety data sheet (According to Regulation (EC) 1907/2006)				Reliance	
Rec	ron [®] Pc	lyester Chips					Polyester Sector
1.	IDENTIFI	IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY / UNDERTAKING				DERTAKING	
1.1	Identification of the product:						
		Product name:	Recron®	Polyester C	hips		
		Product types:	Semidull, B	right, Superbrigh	nt, Cotluk, Dyefa	st, Superdye	e, Recosilk
1.2	Use of the Product:		Production	of Polyester Fila	iment yarns, Fib	res and othe	er textile products
.3	Company/ Undertaking identification:						
1.3.1	Manufacturer Person responsible for placing the Product in EU		Reliance Industries Ltd. (Polyester Sector) Reliance Corporate Park, Building No. 8, 'B' Wing, First Floor, Opposite Ghansoli Railway Station, Thane - Belapur Road, Navi Mumbai - 400 701, INDIA Tel: +91-22-44782112 Fax: +91-22-44779107 E-mail address of person responsible for the Safety Data Sheet: girish.c.desai@ril.com Attn: Mr James Searles Steptoe & Johnson LLP 240 Avenue Louise, 1050 Brussels, Belgium Tel: +3226260510 Email: jsearles@steptoe.com				
1.3.2							
1.4	Emergency	y telephone:	+91-261-4136660 OR +91-7043134547 (24x7) Site Shift Manager, Hazira Division				
2.	HAZARD IDENTIFICATION						
	Classificat	ion:	Not Applica	ble			
	Risk phras	es:	Not Applica	ble			
	Safety phrases:		Not Applicable				
	This product is not considered hazardous. The hazards if any are associated with its processing. Polymer dust may represent a fire hazard at sufficient concentrations in presence of ignition sources.						
3.	COMPOS	ITION / INFORMAT	ION ON IN	GREDIENTS			
3.1	Compositi	on:					
	Chemical identity			CAS No.	EINECS/ ELINCS No.	Conc. (%)	EC Classification
	Polyethylene terephthalate based resin (Polyester / co-polyester)		25038-59-9	Not listed	> 97.0%	Not classified	
	Additives [Titanium dioxide, etc. (optional)]		otional)]	-	-	< 3.0%	-
	Hazardous ingredient			-	-	None	-
3.2	Solvents:			None		•	-
3.3	the polyme	er contains minor additiv r and are not released v e combustion, carbon di	vith normal us	se.	-		-
3.4	At complete combustion, carbon dioxide and carbon monoxide are formed. Other volatiles such as oligomers of PET, acetaldehyde and Low molecular weight alcohols/ aldehydes are also formed. Remarks on special components:						

The chips contain minor additives and stabilizers, which are not considered as hazardous as defined by OSHA hazard Communication Standard (29 CFR 1910.1200)

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4.	FIRST AI	D MEASURES				
4.1	Inhalation:	:	Inhalation of dust and decomposition products should suction and fresh air ventilation. In case of coughing o the person should seek fresh air and if necessary, see	r other symptoms,		
4.2	Skin conta	ict:	Molten material can cause severe burns. DO NOT try to peel molten polymer from the skin. Cool rapidly with water. Burns should be treated as thermal burns. The plastic material will come off, as healing occurs; therefore, immediate removal from the skin is not necessary.			
4.3	Eye contac	ct:	Low hazardous for usual industrial handling. Use of safety glasses with side shields is recommended. Flush eyes with water while holding eyelids open to remove product fines. If irritation continues, consult a physician.			
4.4	Ingestion:		It is unlikely to occur. If it occurs, treat symptomatically. Do not induce vomiting. Call in a physician and show him the Data Sheet.			
5.	FIRE-FIGHTING MEASURES					
5.1	Burning be	ehaviour:				
-	Flammat		Not determined			
	Flash po	int:	Not applicable. Product burns in fire.			
		ion temperature:	515 °C DIN 51794			
	-	osition temperature:	> 300 °C			
5.2		xtinguishing media:	Water Spray, Dry Chemical Powder and Carbon dioxide.			
5.3	Extinguish	ning media which be used for safety	Do not use water, if fire is caused by an electrical short circuit.			
5.4	Special ex fire:	posure hazards in a	Low fire hazard. Uncommon with many organic compounds in granular / powder form, it can produce flammable dust clouds in air. On complete combustion, the major products formed are carbon dioxide & water. Remove ignition sources. Beware of electrostatic charges.			
5.5	Special pro	otective equipment hters:	Wear self-contained breathing apparatus, protective clothing and headgear to prevent contact with skin & eyes.			
5.6	Further inf	ormation:	Oxides of Carbon (CO, CO ₂) and low-molect compounds depending on temperature and air supply.			
6.	ACCIDEN	NTAL RELEASE M	EASURES			
	Personal p	precautions:	Spillages may be slippery. Clear up spillages.			
			The molten polymer may remain hot for some time conductivity. Use care when disposing of molten mass			
			Do not breathe vapours or fumes that may be evolved Material can be handled hot/ molten. Contact with h can cause burns. Avoid contact with molten material.			
	Environme	ental precautions:	In case of accidental spills, do not allow entering dra When picked up, treat material as prescribed under considerations". Use proper personal protection.			
	Methods fo	Is for cleaning up: Clean up by vacuuming or wet sweeping to minimize dust exposure. Sweep up and recover, or mix material with moist absorbent and shovel into suitable chemical waste container.				

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7.	HANDLING AND STORAGE				
7.1	Handling:		Adequate ventilation and cleanliness must be employed in the processing area. Area should be controlled using good occupational hygiene practices.		
			Accumulation of the dust may represent a fire and explosion hazard a sufficient concentrations. Remove ignition sources. Beware of electrostatic charges.		
7.2	Storage:		Storage temperatures: Ambient.		
			Keep containers closed when not in use. Store in a cool & dr		
				ght or incompatible accumulations.	
7.3	Specific us	se(s):	No specific end-use related recommendation needs to be followed		
8.	EXPOSURE CONTROLS / PERSONAL PROTECTION				
8.1	Exposure I	imit values:	Comply with national occupational threshold values for dust or powder. According to TRGS 900 (Germany) there are two values:		
			a) 3 mg/m^3 - for fine dust		
8.2	Exposure of	controls:	 b) 10 mg/m³ - for coarse dust Avoid accumulation of dust and decomposition products during extrusion operations by hood suction, sufficient fresh air supply and proper house 		
8.2.1	Occupatio	keeping. nal exposure controls:			
	a) Respirato	ory protection:		For operations where inhalation exposure car approved respirator recommended by an ind may be necessary.	
	b) Hand pro	tection:		Protective gloves are required when handline	g hot polymer.
	c) Eye prote	ection:	B	When using material in cold processing (e.g. grinding), wear suitable eye protection. Wea a face shield while doing extrusion operation	r safety glasses or
	d) Skin prot	ection:		Use long sleeve cotton shirt and long pants of handling molten polymer. Gloves should be against thermal burns. A safety shower and should be available.	worn to protect
			 Exhausted dust and decomposition products shall be properly collected and disposed off. 		

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9.	PHYSICAL	AND CHEMICAL PROPERTIES	_				
9.1	General infor	mation					
	Appearance	Pellets, Opaque White, White					
	Odour	Odourless					
9.2	Important health, safety and environmental information						
	рН	Not applicable					
	Melting point/	range > 240 °C					
	Flash point	Data not available	Data not available Data not available				
	Flammability	Data not available					
	Explosive pro	perties Data not available					
	Oxidising prop	perties None					
	Vapour press						
	Density	> 1.30 g/cm ³					
	Solubility	lity Insoluble in common solvents					
	Water solubili	solubility Insoluble					
	Partition coeff	tion coefficient Not applicable					
	Viscosity						
	Vapour densit	y Not applicable					
	Evaporation ra	ate Not applicable					
10.	STABILITY AND REACTIVITY						
10.1	Conditions to	avoid: Material is stable under normal conditions. Temperatures ab thermal decomposition (see also 5.6)	ove 300 °C lead to				
10.2	Materials to a	cyclohexanone, dimethylformamide, dioxane, ethyl acetate, r methylene chloride, phenol, tetrahydrofuran, trichloroethyler	Acetic anhydride, acetone, aniline, benzene, chloroform, chromic acid, cyclohexanone, dimethylformamide, dioxane, ethyl acetate, methyl ethyl ketone, methylene chloride, phenol, tetrahydrofuran, trichloroethylene, triethanolamine, caustic soda. Strong oxidation agents as well as strong acids and caustic will decompose polyester.				
10.3	Hazardous decompositio products:	mposition oligomers of PET, carbon dioxide, carbon monoxide, acetaldehyde, and low					
11.	ΤΟΧΙCOLO	GICAL INFORMATION					
11.1	Acute toxicit	y Low oral toxicity.					
11.2	Inhalation	Low acute toxicity. Dusts and vapours or fumes evolved during may cause irritation to the respiratory system.	thermal processing				
11.3	Skin irritation	No evidence of irritant effect from normal handling and use.					
11.4	Eye irritation	Dust may have irritant effect on eyes. Permanent damage is unl	ikely.				
11.5	Ingestion	Data not available.					
	Recron [®] Polyester is a non-toxic polymer. Proper use of these chips has not been associated with a special hazard or any detrimental effects on health. Polymer dust may represent a fire hazard at sufficient concentrations in presence of ignition sources.						

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12.	ECOLOG	GICAL INFORMATION					
12.1	Eco-toxici	ty:	Low toxic to aquatic organisms.				
12.2	Mobility:		The product is insoluble in water. Due to their in water and high molecular weight, they are low BOD and will not cause oxygen depletion i	expected to have a			
12.3	Persistenc	ce and degradability:	The product is non-biodegradable.	-			
12.4		nulative potential:	They are expected to be non-biodegradable concentrate.	and unlikely to bio-			
12.5	Other adve	erse effects:	Unlikely to affect biological treatment processe	es.			
13.	DISPOSAL CONSIDERATIONS						
	Disposal of Polyester products does not pose any specific danger. It is recommended that Polyester Flakes be recycled. If recycling is not possible, Polyester waste flakes can be disposed of in a suitable refuse installation or incinerated subject to local regulations.						
14.	TRANSP	ORT INFORMATION					
14.1	UN numbe	er:	Not applicable				
14.2	Class/ Pac	king group:	Not restricted				
14.3	Marine pol		None				
14.4	-	nal Transport Regulations:	ns: Not classified as dangerous for transport.				
14.5	Road/ Rail	(ADR/ RID):	Not restricted				
14.6	Sea (IMDG	i):	Not restricted				
14.7	Air (ICAO	/ IATA):	Not restricted				
15.	REGULA	TORY INFORMATION					
	Recron [®] Po	olyester products do not requir	re hazard warning labels in accordance with EC (directives.			
	Risk phras	se(s):	Not applicable				
	Safety phr	ase(s):	Not applicable				

Recron

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Recron[®] Polyester Chips

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 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.

16.3 Revisions:

Version: 1.1 - Contact details of "REACH" Only Representative included as section 1.4. Version: 1.2 - Change of Manufacturer address Version: 1.3 – Recosilk included in section 1.1. Version: 1.4 – Reaffirmed.