ACCORDING TO REGULATION (CE) 1907/2006 REACH AND (EU) No 453/2010

fluteck P1000

PTFE Standard Grade

1 - IDENI	FIFICATION OF THE SUE	STANCE/ PREPARATION AND COMPANY/ UNDERTAKING
1.1	Identification of the	Polytetrafluoroethylene (PTFE)
	product	Semifinished and finished products of PTFE
	Trade name	fluteck [™] P1000 - fluteck [™] P1050 - fluteck [™] P1500 - fluteck [™] P1550
		Semifinished and finished products of PTFE
	Grade	Moulded and Extrusion
	Structural formula:	$-(CF_2-CF_2)_n-$
	(of the polymer)	
	Product code	
1.2	Identified uses and	
	recommended for the	
	substance or mixture	
	Recommended use	Product for industrial use only

1.3	Details of the supplier of the safety data sheet				
	Company name	fluorseals S.p.A.			
	Address	Via Tribolina, 20/22 24064 – Grumello del Monte (BG) I			
	Telephone and Fax nr	+39 035 4492842			
	e-mail address	cristianr@fluorseals.it			
1.4	Emergency Calls	+39 035 4492842 (internal corporate)			

2 – HAZ.	ARD IDENTIFICATIONS							
2.1	Classification of the substance or mixture							
	This mixture is classified as <u>n</u> e	This mixture is classified as not dangerous in accordance with directives						
2.1.1	European Regulation (EC) 12	72/2008, as mentioned						
2.1.2								
	Hazard Class	Hazard Categor	у	H-phrases				
	None	None		None				
2.1.3	European Directive 67/548 /	EEC or 1999/45 / EC						
	Class Hazard /category Haza	ard	R-phrases					
	None		None					
2.2	Label elements: No	one						
2.2.1	Names on the label: N	one						
2.2.2	Signal word : N	one						
2.2.3	Hazard pictograms: N	one						
2.2.4	Hazard : No	one						
2.2.5	Safety advice:	Vone						
2.3	Other hazards: The product is Not hazardous under normal of Ecological injuries are not kno Thermal decomposition can le	conditions of handling and upon or expected under norm	nal use.					

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3 - COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 mixture

3.2.1 Concentration

<u>Name</u>	Conc.	<u>N° CAS.</u>	<u>Symbol</u>	Risk Phrases
Polytetrafluoroethylene	100 %	9002-84-0	-(CF ₂ -CF ₂)-	None

4.1	Description of first aid measures Symptomatology following exposure to products of thermal decomposition				
4.1.1	If inhaled	Headache, short breathing, cough, chills and fever, tachycardia.			
4.1.3	In case of contact with skin	Redness, irritation, burns			
4.1.4	Eye contact	Redness, irritation, burns			
4.1.5	Ingestion	Not a probable route of exposure. However, in case of accidental ingestion, call a physician			
4.2	First Aid Measure	s in case of exposure to gases from thermal decomposition			
4.2.1	If inhaled	Move immediately affected person to fresh air. Seek medical attention immediately. If not breathing, supply artificial respiration, preferably mouth to mouth. In case of difficult breathing, give oxygen. Decomposition products do not occur until several hours after exposure. Keep the affected person under medical observation for at least 48 hours. A timely medical attention is absolutely required.			
4.2.2	Eye contact	Flush immediately and copiously with water for at least 15 minutes, retracting eyelids often. Seek medical attention in case burns continues.			
4.2.3	In case of contact with skin	Wash immediately with water and soap (pay particular attention to flushing skin under nails). Seek medical attention in case burns continues.			
4.2.5	If swallowed	Not a probable route of exposure. However, in case of accidental ingestion, call a physician			

5 – FIRE	FIGHTING MEASURES
5.1	Specific hazards
5.1.1	The product is neither flammable nor explosive.
	In the event of fire, corrosive and toxic gases from thermal decomposition may be formed, like Carbon monoxide (CO)
	Hydrofluoric acid (HF)
	Carbonil Fluoride (COF ₂)
	Tetrafluoroethylene
	Hexafluoroisobutylene
	Perfluoroisobutylene
	Sulphurous anydride
5.2	Extinguishing media
5.2.1	Water (spray, fog, stream), CO ₂ , chemicals in powder or foam.
5.3	Specific methods
5.3.1	In case of surrounding fire, if possible, remove the containers in a safety place. To do only if in safe conditions (safety distance from the flames and staying upwind)
	In case of impending fire, keep containers cool by spraying with water.
5.4	Protection of fire-fighters
5.4.1	Self contained breathing apparatus.
	Full anti-acid clothing

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6 – AC	CIDENTAL RELEASE MEASURES
6.1	Personal precautions
	Keep away from hot surfaces and flames.
	Stop the release as soon as possible, in safe conditions.
6.2	Environmental precautions
	Avoid uncontrolled discharge of the product in the soil and underground waters.
6.3	Methods for cleaning up
	Sweep and scoop out the released material, collecting it in suitable container for re-use or disposal according to applicable regulations.
6.4	Reference to other sections
	None

7 – HAN	DLING AND STORAGE
7.1	Handling
7.1.1	Precautions
	Ensure adequate ventilation
	Use personal protective equipment
	Avoid creating dust
	Do not contaminate products based on tobacco
	Keep away from heat and sources of fire
	To avoid thermal decomposition do not overheat
	Before each operation clean and dry pipes and equipment
	Take measures to prevent the build up of electrostatic charge
	Ensure all equipment is electrically grounded before beginning transfer operations
7.1.2	Security measures
	In working areas where the materials are handled at temperatures higher than 350°C appropriate exhaust ventilation and smoke down bringing are required.
7.2	Conditions for safe storage, including any incompatibilities
7.2.1	Storage
	Keep away from sparks and flames, hot surfaces and inflammable materials.
	Do not store near incompatible materials (see par. 10).
7.2.2	Packaging
	Cardboard boxes or plastic drums, wooden boxes

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8 – EXPO	SURE CONTROLS/ PER	RSONAL PROTECT	TION				
8.1	Control parameters						
8.1.1	Exposure Limit values						
	Exposure guidelines						
	In our die of	A cathe a wite a	T		1 ::		A delition of information
	Ingredient Polytetrafluoroethylene	Authority CMRG	Type	respirable	Limit 5 mg/m ³		Additional information
	Folytetralidoroetriylerie	CIVIING	dust	i lespirable	3 mg/m		_
	Polytetrafluoroethylene	CMRG		s total dust	10 mg/m ³		-
	HF	TLV/CEILING		2,6 mg/ r	n ³	3 рр	m
	COF ₂	TLV/STEL		13,5 mg/ r	n ³	5 рр	m
	Source of exposure limit ACGIH: American Confe CMRG: Chemical Manufa	rence of Government			5		
	OSHA: Occupational Saf AIHA: American Industria			ce Environm	ental Exposure	Level	(WEEL)
8.2	Exposure controls						
8.2.1	Appropriate engineering	controls					
8.2.2	Individual protection measures						
8.2.2.1	Respiratory protection						
	Normally it is required an If dust / mist / fume, dus Use respirator when per Use only respiratory pro	t mask with filter type forming operations in	P2. volving p	otential expo	sure to vapor of	the pr	roduct.
8.2.2.2	Hand Protection	teotion that comornio	to intorne	ational / Hatio	nai standards.		
	Latex gloves When handling hot mater	rial, use heat resistan	t gloves				
8.2.2.3	Eye protection						
	In case of high dust conc	entration wear safety	goggles a	and appropria	ate work suits/o	veralls	
8.2.2.4	Body protection						
	Long sleeved clothing Safety shoes						
8.2.2.5	Hygiene measures						
	When using, do not eat, of Wash hands before breat Handle in accordance with	ks and at the end of v		giene and sa	afety practice		
8.2.3	Environmental exposure		addition try	giorio ana oc	noty product		
	Every four years, the wor		nonitored.	Result: not o	dangerous		
	-						

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9 – PHYS	ICAL AND CHEMICAL PROPERT	ES		
9.1	Information on basic physical and chemical.			
	Polytetrafluoroethylene PTFE			
9.1.1	general information			
	Fluorinated polymer			
	Appearance	Solid		
	Odour	odorless		
	Colour	white		
	Density relative	2,130 – 2,200 g/cm ³		
	Point of fusion	327 ÷ 335 °C		
	Decomposition temperature	> 350 °C		
	Auto-ignition temperature	575 °C		
	рН	not applicable		
	Boiling point	not applicable		
	Flash point	non flammable		
	explosive properties	not explosive		
	oxidizing properties	non-oxidizing		
	Vapor Density	not applicable		
	Solubility in water	insoluble		
	Solubility in organic solvent	insoluble		

10 – ST <i>A</i>	ABILITY AND REACTIVITY
10.1	Stability
	The product is stable in normal condition of use and storage.
10.2	chemical stability
	The product is chemically stable
10.3	Possibility of hazardous reactions
	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 masse may give off hazardous gases. Stable under normal condition.
10.4	Conditions to avoid
	To avoid thermal decomposition, do not overheat. Abnormally long processing time or high temperatures can produce irritating and toxic fumes. Stable under normal conditions
10.5	Materials to avoid
	Finely divided aluminium Powdered metals Potent oxidizers like fluorine and related compounds. Contact with incompatible materials can cause fire and explosion
10.6	Hazardous decomposition products
	Toxic and corrosive vapour-steam (hydrogen fluoride, carbonyl fluoride, tetrafluoroethylene, hexafluoropropane and perfluoroisobutane).
	The temperature level influences directly the thermal combustion products.

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	COLOGICAL INFORMATION
11.1	Acute toxicity
	See 11.1.1
11.1.1	Acute oral toxicity
	Polytetrafluoroethylene
44.4.0	LD50/rat : > 11,280 mg/kg
11.1.2	Acute inhalation toxicity
	The thermal decomposition vapours of fluorinated plastics may cause polymer fume fever with flu-like symptoms in
	humans, especially when smoking contaminated tobacco.
	CL50, 30min, rabbit . 3,5 mg/l, Pyrolysis products (625 ° C) (polytetrafluoroethylene)
	CL50, 50min, rabbit : 3,5 mg/l, Pyrolysis products (800°C) (polytetrafluoroethylene)
11.2	Corrosion / Skin Irritation
	Polytetrafluoroethylene - rabbit
	Classification: not classified as irritant
	Result: No skin irritation
	Polytetrafluoroethylene - human
	Classification: not classified as irritant
	Result: No skin irritation
11.3	Serious eye damage / eye irritation
	No eye irritation in normal condition of use
11.4	Sensitisation
	Polytetrafluoroethylene - human
	Classification: not a skin sensitizer
	Result: Does not cause skin sensitisation.
11.5	Patch test on human volunteers did not demonstrate sensitisation properties
11.5	Mutagenicity
	Polytetrafluoroethylene Test on bacterial or mammalian cell cultures did not show mutagenic effects.
11.6	
11.0	Carcinogenicity Polytetrafluoroethylene. Not classifiable as a human carcinogen
11.7	<u> </u>
11.7	Toxic for reproduction Polytetroflyers of bylane. No toxicity to reproduction
44.0	Polytetrafluoroethylene. No toxicity to reproduction
11.8	Repeated dose toxicity
	Polytetrafluoroethylene. Oral – feed rat
44.0	No toxicologically significant effects were found
11.9	other information
	none

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12 – ECO	LOGICAL INFORMATION
12.1	Toxicity
	Toxicity to fish: the substance is a polymer and is not expected toxic effects
12.2	Persistence and Degradability
	no data available
12.2.1	Abiotic degradation
	no data available
12.2.2	Biodegradation
	no data available
12.3	Biocumul potential
	no data available
12.4	Mobility in soil
	no data available
12.5	Results of PBT and vPvB
	no data available
12.6	Other adverse effects
	no data available

13 – DISPOSAL CONSIDERATIONS				
13.1	Waste treatment			
	The product that can not be recycled must be disposed in authorised landfill or destroyed in a high-temperature incinerator designed to burn halogen materials.			
13.2	Packaging treatment			
	Dispose of in authorised landfills according to local laws and regulations.			

14 – TR <i>i</i>	ANSPORT INFORMATION				
14.1	Specific hazards				
	The product is not classified as dangerous in transportation				
14.2	Packaging information				
	Product usually shipped in bags within plastic canisters, cardboard boxes or plastic drums, wooden boxes				
14.3	International transport classification				
	Packaging group:	not assigned			
	U.N. Number:	not assigned			

15 – REC	GULATORY INFORMATION				
15.1	EC Regulations				
	Regulation (CE) n.1907/2006				
	Regulation (CE) n. 453/2010				
Directive 67/548 and following amendments					
	Directive 1999/45 CE and following amendments				
15.2	Classification				
	Hazard class:	none			
	Classification type	not required			
15.3	Labelling				
	Trade name	Polytetrafluoroethylene (PTFE)			
		Virgin ptfe semifinished and finished products			
	Risk phrases (R)	none			
	Safety phrases (S)	none			
	Hazard Symbol	none			
15.4	Chemical Safety Assessment				
	None				

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16 – OTH	16 – OTHER INFORMATION		
16.1	Text of hazard "H" referred to under sections 2-3		
	none		
16.2	Text of risk phrases "R" mentioned in section 2-3		
	none		
16.3	Other information		
	Safety data sheet according to Regulation (CE) n.1907/2006 and (CE) n.453/2010		
	Regulation (EC) N.1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation Service, Authorization and Restriction of Chemicals (REACH), establishing a European Agency for chemicals, What Change 1999/45/EC and repealing Regulation (EEC) 793/93 and Council Regulation (EC) n.1488 /94 the Commission, as well as the Directive 76/769/EEC and Commission Directives 93/67/EEC, 93/105 /EC and 2000/21/EC.		
	Regulation (EU) 453/2010 of the Commission of 20 May 2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and the Council. Regulation EEC / EU n ° 453 of 20/05/2010 of the Commission of 20 May 2010 amending Regulation (EC) n.1907 / 2006 of the European Parliament and the Council.		
	Regulation EEC/EU n.1272 of 16/12/2008 "Regulation (EC) n.1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45 / EC, and amending Regulation (EC) N.1907/2006.		

fluorseals S.p.A. Q. A. Service









