

SECTION 1 IDENTIFICAT	ΓΙΟΝ			
1.1 Product Identifier				
Product name: Fluo	rofab® 170-14S COPPER			
Synonyms: Silico	one Rubber Coated Fibreglass	Tape with Silicone Adhesive		
1.2 Relevant identified	-			
Use of the Product:	Plasma Spray Masking T	ape best suited for HVOF Applications		
1.3 Details of the suppl	lier of the safety data sheet			
Company:	Green Belting Industries Lin 381 Ambassador Drive Mississauga ON L5T 2J3 Canada	nited		
Telephone:	+1 905 564 6712	(09:00 to 17:00 Eastern Standard Time)		
Telefax:	+1 905 564 6709			
E-mail address:	sds-support@greenbelting	.com		
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Telephone:	+44 (0)1274 694684	(09:00 to 17:00 UTC/GMT)		
Telefax:	+44 (0)1274 694685			
1.4 Emergency Telepho	one Number			
North American Emergency Telephone Number:	+1 905 564 6712	Available between the hours 09:00 to 17:00 (EST)		
European Union Emergency Telephone Number:	+44 (0)1274 699425	Available between the hours 09:00 to 17:00 (UTC/GMT)		



SECTION 2 HAZARD IDENTIFICATION			
2.1 Classification of the Product			
European	lot a classified substance or mixture according to Regulation (EC) No. 1272/2008.		
Communities (EC):	ot classified as dangerous according to Directive 67/548/EEC.		
USA:	Not a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard		
	Communication Standard.		
Canada:	Not a controlled product under WHMIS.		
2.2. Label elements			
Symbol:	None		
Signal Word:	N/A		
Hazard Statement(s):	N/A		
Precautionary Statement	P261 – Avoid breathing any fume or dust that may be generated		
	P264 – Wash hands thoroughly after handling.		

2.3. Other hazards

Use of this product is not normally considered hazardous, however material dust caused by cutting, sawing or sanding may cause eye or skin irritation. Processing at temperatures higher than 300°C will result in thermal decomposition and may release carbon monoxide, and silicon dioxide may also be released. In all cases avoid exposure, move the individual to fresh air and consult a physician if severe.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature of the Mixture: PTFE coated woven glass fabric with silicone adhesive

3.1 Substances

Not Applicable

3.2 Mixtures

Ingredient Name	CAS Number	% by Weight	Exposure Limits	Symbol	Risk Phrases
Organopolysiloxane Mixture(Silicone Rubber)	63148-62-9	52.7	N/A	None	None
Mixed Metal Oxides	1308-38-9	0.1 - 0.5	N/A	None	None
Polysiloxane Adhesive	68951-93-9	18.3	N/A	None	None
Glass Fibre (fiberglass cloth)	65997-17-3	17.7	OSHA PEL - 5 mg/m ³ ACGIH TLV - 5mg/m ³	None	None
Polyvinyl Chloride (inter-liner)	9002-86-2	11.1	N/A	None	None

The above product(s) are defined under the European Union's REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) regulation as articles, and as such are exempt from the material safety data sheet provisions of 29 CFR 1910.1200(G).

None of the product components are intentionally released during their use when used as intended and in accordance with recommended specifications and parameters.

This product is REACH compliant and does not contain REACH SVHCs (Substances of Very High Concern) materials and is considered non-hazardous when used as intended and in accordance with recommended specifications and parameters.

For full text of the R-phrases mentioned in this Section, see Section 16.

For full text of the H-statements mentioned in this Section, see Section 16.



SECTION 4 FIRST A	ID MEASURES
	First Aid Measures
4.1 Description of	
General Advice:	Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
Inhalation:	N/A for material as supplied at room temperature and used as intended and in accordance with recommended specifications and parameters. Product - processing at high temperature may result in thermal decomposition and may release carbon monoxide, carbon dioxide and silicon dioxide. Remove to fresh air and consult a physician if severe. Inter-liner – if PVC decomposes due to overheating or contact with fire, remove affected persons to fresh air. In case of irritation of respiratory system or if feeling unwell after prolonged exposure, seek medical attention.
Skin Contact:	Not normally considered hazardous, for material as supplied at room temperature and used as intended and in accordance with recommended specifications and parameters. Product - skin contact with the adhesive or material dust caused by cutting, sawing or sanding may cause skin irritation. Wash with plenty of soap and water. If irritation persists get medical attention. Inter-liner – If contact with hot (melt) product occurs, wash with plenty of water and treat as for thermal burn.
Eye Contact:	Product - material dust caused by cutting, sawing or sanding may cause eye irritation. Wash with plenty of soap and water. If irritation persists get medical attention. Inter-liner – After contact with hot (melt) product, immediately flush eyes with water for several minutes at least and get medical attention.
Ingestion:	If swallowed get medical advice. Do not induce vomiting unless instructed to do so by medical personnel.
4.2 Most importar	nt symptoms and effects, both acute and delayed
Symptoms:	Local irritation.
	Potential health effects of acute inhalation include mechanical irritation of the mouth nose and throat. Skin contact may cause temporary irritation, itching and inflammation usually caused by any fibres present.
	Dust from this product may cause temporary irritation to the eyes. Inhalation of decomposition products from overheating may cause lung irritation or
	shortness of breath. For inter-liner, after inhalation of decomposed products, symptomatic treatment (decontamination, vital functions), if necessary take action against irritation of the mucous membranes by HCI.
4.3 Indication of a	ny immediate medical attention and special treatment needed
Treatment:	Treat symptomatically.



SECTION 5 FIRE FIGHTING MEA	SURES
5.1 Extinguishing Media	
Suitable extinguishing media:	Water spray, Carbon dioxide (CO2), Foam, Dry Chemical
5.2 Special hazards arising from	n the product
Specific hazards during fire-	Hazardous thermal decomposition products.
fighting:	For product carbon oxides and silicon dioxide.
	For PVC inter-liner – hydrogen chloride which upon contact with water forms hydrochloric acid.
	Exposure to decomposition products can be a hazard to health.
5.3 Advice for firefighters	
Special protective equipment for firefighters:	Wear self-contained breathing apparatus and protective suit. Wear neoprene gloves during cleaning up work after a fire.
Further information:	For inter-liner protect from hydrogen chloride fumes which react with water to form hydrochloric acid.
	Inter-liner will not burn without a flame (self-extinguishing).
	Observe local regulations when contaminated water and burning waste are removed.

SECTION 6 ACCIDENTAL RELEASE MEASURES			
6.1 Personal precautions, protective equipment, and emergency procedures			
Personal precautions:	For solid product none required.		
	For dusts and fibres generated during fabrication use protective equipment to		
	prevent the contamination of skin, eyes, and clothing.		
6.2 Environmental Preca	autions		
Environmental	N/A - solid product		
Precautions			
6.3 Methods and materi	als for containment and cleaning up		
For solid product collect	with hands broom and shovel and place in non-hazardous waste collection container		
for disposal.			
For dusts and fibres gene	erated during fabrication vacuum up and containerise.		
6.4 Reference to other s	ections		
For disposal instructions	see section 13.		



SECTION 7 HANDLING AN	ID STORAGE
7.1 Precautions for safe h	andling
Advice on safe handling:	Solid product which presents minimal hazards to personnel when handling in accordance with operating and storage recommendations. The primary health hazards associated with this product are the generation of dust during fabrication and the inhalation of thermal decomposition products when the product is subjected to temperatures greater than 300°C. Provide appropriate exhaust ventilation at places where dust or volatiles can be generated and always wash hands thoroughly after handling. For inter-liner avoid overheating the material, as it decomposes to gaseous components (see section 5). Thermal degradation does not occur at low temperatures, but becomes faster at higher temperatures.
Advice on protection against fire and explosion:	Dispose of in accordance with local regulations as a solid non-hazardous waste and avoid inappropriate disposal practices. Provide appropriate exhaust ventilation at places where dust or volatiles can be generated. For inter-liner take precautionary measures against static discharge (i.e. using proper grounding techniques) when handling rolls or sheets in dry rooms (especially to avoid harm to people). Polyvinyl chloride (PVC) is not dust explosive in its delivered state. Do not incinerate PVC waste.
7.2 Conditions for safe st	orage, including any incompatibilities
Requirements for storage areas and containers:	No special precautions necessary, but recommend storing in a dry cool place and protecting from contamination.
Advice on common storage:	No special restrictions on storage with other products.
Storage temperature:	Store in cool, dry conditions and avoid excessive temperatures.
Other data:	Do not store in direct sunlight or in conditions of high humidity.



	INTROLS / PERSO	NAL PROTECTION			
8.1 Control Parameters					
In situations in confined s degradation products ma	y be produced. E	xposure limits for these			-
carbon dioxide and silicor	h dioxide, must h	ot be exceeded.	T 1.) /	T 1.)/	
			TLV TWA	TLV	
In situations in confined s	ana ana whara	hudrogon chlorido		STEL	(NIOSH)
In situations in confined s		hydrogen chloride	2ppm ceiling	5ppm	50ppm
the temperature of the in				ceiling	
exceeds 248°F (120° C), t					
degradation products ma					
Exposure limits for these	-				
include hydrogen chloride exceeded.	e, must not be				
exceeded.					
PVC is recognized as safe, 01-04, EINECS-No. 20083 MAK-Value:2ppm (5mg/n For supplied inter-liner, a Given the special precaut personnel. Gloves should be worn w workplaces when handlin	10. n³) Germany as T I VCM value of ≤ C Cions mentioned in then handling hot	RK-value according to T 0.5ppm is guaranteed. n section 7, these traces	RGS 102). 5 present no toxic 6 are normally rec	risk to the pro	ocessing r all industrial
to stand to a sub-sur-later.	and a f		OSHA-PEL	ACGIH-TLV	Other
In situations where high least			5mg/m ³ –	5mg/m ³	3 x 10 ⁶ fibres/m ³
airborne dust/glassfibres specified exposure limits			nuisance dust PEL	- 8 hour TWA	- 10 hour
exceeded.	must not be		(respirable	(inhalable)	TWA
			dust	1 fibre/cm ³	(NIOSH)
			fraction)	- 8 hour	(110311)
			$15 \text{mg/m}^3 - 8$	TWA	
			hour TWA	(respirable)	
				(respirable)	
			ttoral dust		
			(total dust fraction)		
8.2 Exposure Controls			-		
8.2 Exposure Controls Engineering measures:	If cutting, sawi	ng or sanding of the pro	fraction)	, to maintain e	exposures
-	below recomm	ended limits, a properly	fraction) duct is necessary designed dust co	ollection system	m is
-	below recomm		fraction) duct is necessary designed dust co	ollection system	m is
-	below recomm recommended	ended limits, a properly	fraction) duct is necessary designed dust co . Adequate vent	ollection syster ilation must be	m is
Engineering measures:	below recomm recommended when working	ended limits, a properly at the operation source with the product at elev	fraction) duct is necessary designed dust co e. Adequate venti vated temperatur	ollection syster ilation must be es.	n is e provided
Engineering measures:	below recomm recommended when working Throughout ba	ended limits, a properly at the operation source	fraction) duct is necessary designed dust co designed dus	ollection syster ilation must be es. never handling	m is e provided g materials
Engineering measures: Eye protection:	below recomm recommended when working Throughout ba containing fibe	ended limits, a properly at the operation source with the product at elev sic product handling pro rglass, safety glasses, go	fraction) duct is necessary designed dust co adequate ventivated temperatur ocesses, and when oggles or face shie	ollection syster ilation must be es. never handling elds should be	m is e provided g materials worn.
Engineering measures:	below recomm recommended when working Throughout ba containing fibe Throughout ba	ended limits, a properly at the operation source with the product at elev sic product handling pro	fraction) duct is necessary designed dust co ated temperatur occesses, and when oggles or face shie occesses, leather o	ollection syster ilation must be es. never handling elds should be	m is e provided g materials worn.



	SAFETY DATA SHEET
Flu	orofab® 170-14S SERIES THERMAL SPRAY MASKING TAPE
Skin and body protection:	The wearing of a loose fitting long sleeved shirt that covers to the base of the neck and long trousers is recommended to minimise exposure to fiberglass. Skin irritation from exposure to fiberglass is known to occur mostly at pressure points such as around the neck, wrist and waist.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product and do not contaminate tobacco products.
	Be careful not to rub or scratch areas irritated from fiberglass exposure, as fibres may be forced into the skin. Wash off any fiberglass in contact with the skin, and consider the use of barrier creams which can minimise irritation.
	Always use vacuum equipment to remove fibres and dust from clothing and never use compressed air.
	Contaminated clothes should always be washed separately.
Respiratory protection:	Not required for normal use of the product.
	In situations where high levels of airborne dust/glassfibres are present and which exceed permissible exposure limits, or irritation occurs, then a correctly fitting NIOSH/MHSA approved disposable dust respirator should be used.
	In situations in confined spaces where the temperature of the polymer exceeds 500°F (260° C), an air supplied respirator should be used.
	In situations where high levels of airborne dust/glassfibres or fume, use industrial
	hygiene monitoring to ensure that TLV or PEL values are not exceeded.
	Excessive exposure to thermal degradation products could result in delayed pulmonary edema and in some cases, and on very high exposure damage to the
	liver and kidneys.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
9.1 Information on bas	ic physical and chemical	properties		
Appearance:	Coloured silicone, with yellow liner.	Flammability (solid, gas):	N/D	
Physical state:	Solid	Upper/lower flammability or explosive limits:	N/A	
Odour:	Odourless	Vapour pressure:	N/A	
Odour threshold:	N/A	Vapour density:	N/A	
pH:	N/A	Relative density:	N/D	
Melting point/freezing point:	N/A to product Inter-liner softening temperature 60-90°C Glass transition temp approx. 80°C	Solubility(ies):	Product - Insoluble Inter-liner soluble in tetrahydrofuran and cyclohaxanone, partly soluble in some aromatic hydrocarbons	



Initial boiling point and boiling range:	N/A	Partition coefficient: n- octanol/water:	N/A
Flash point:	N/A	Auto-ignition temp:	N/A
Evaporation rate: Viscosity:	N/A	Decomposition temp:	Product 572°F (300°C) Inter-liner -> 150°C (long term contact) >200°C (short term contact)

SECTION 10 STABILITY AND REACTIVITY	
10.1 Reactivity:	Stable at normal ambient temperature and pressure
10.2 Chemical stability:	Product is chemically stable
10.3 Possible hazardous reactions:	Stable under recommended storage conditions
10.4 Conditions to avoid:	Avoid heating for prolonged periods above the recommended upper usage limit
10.5 Incompatible materials:	Strong bases, Hydrofluoric Acid.
10.6 Hazardous decomposition products:	May include carbon monoxide, carbon dioxide and hydrogen chloride (for the inter-liner).

11.1 Information on toxicol	ogical effects	
Acute oral toxicity	Dusts may cause mechanical irritation to skin and eyes. Dust inhalation may	
	cause coughing, nose and throat irritation or sneezing.	
	PVC (inter-liner) –recognised as safe and biologically inert.	
Irritation		
Skin	Dust from this product may cause temporary irritation to the skin.	
Eyes	Dust from this product may cause temporary mechanical irritation to the eyes.	
Respiratory	Dust from this product may cause temporary mechanical irritation to the nose,	
. ,	throat and respiratory tract.	
Sensitisation		
Skin	No data available	
Respiratory	No data available	
Repeated Dose Toxicity	No data available	
Mutagenicity assessment	No data available	
Carcinogenicity assessment	No data available	
-		
Reproductive assessment	No data available	



STOT-Single exposure	No data available			
STOT-Repeated exposure	No data available			
Aspiration hazard	Not applicable			
Potential acute health effe	ects			
Inhalation	No known significant effects or critical hazards			
Ingestion	No known significant effects or critical hazards			
Skin contact	No known significant effects or critical hazards			
Eye contact	No known significant effects or critical hazards			
Symptoms related to the p	Symptoms related to the physical, chemical and toxicological characteristics			
Inhalation	No specific data			
Ingestion	No specific data			
Skin contact	No specific data			
Eye contact	No specific data			
General	No known significant effects or critical hazards			
Carcinogenicity	No known significant effects or critical hazards			
Mutagenicity	No known significant effects or critical hazards			
Teratogenicity	No known significant effects or critical hazards			
Development effects	No known significant effects or critical hazards			
Fertility effects	No known significant effects or critical hazards			

SECTION 12 ECOLOGICAL INFORMATION	
12.1 Toxicity	The substance is a polymer and is not expected to produce toxic effects. PVC (inter-liner) is not soluble in water (WKG 0 by supplier self- declaration). PVC is harmless in contact with fish and bacteria. In a water treatment plant, PVC can be separated mechanically.
12.2 Persistence and degradability	no data available
12.3 Bio-accumulative potential	no data available
12.4 Mobility in soil	no data available
12.5. Results of PBT and vPvB assessment	no data available
12.6. Other adverse effects	
Additional ecological information	no data is available on the product itself.

SECTION 13 DISPOSAL CONSIDERATIONS		
13.1 Waste treatment methods		
Product	Where possible, recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations. Incinerate only if incinerator is capable of scrubbing out acidic combustion products.	



SECTION 14 TRANSPORT INFORMATION					
	14.1	14.2	14.3	14.4	14.5
	UN Number	Proper Shipping Name	Transport Hazard Class(es)	Packing Group	Environmental Hazards
DOT	Not Applicable	Not Applicable	Not Applicable	Not Applicable	None
ADR	Not Applicable	Not Applicable	Not Applicable	Not Applicable	None
IATA/ICAO	Not Applicable	Not Applicable	Not Applicable	Not Applicable	None
IMO/IMDG	Not Applicable	Not Applicable	Not Applicable	Not Applicable	None
14.6 Special precautions for user:		Not classified as dangerous in the meaning of transport.			
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:		Not applicable			

SECTION 15 REGULATORY IN	
	onmental regulations/legislation specific for the substance or mixture
USA	
TSCA Status:	All ingredients in the product are listed in the TSCA inventory
SARA Title III	
Sec. 303/304:	None
Sec. 311/312:	Not applicable
Sec 313:	Not applicable
CERCLA RQ:	Not applicable
California Prop 65:	This product does not contain chemicals known to the State of California to
·	cause cancer of the reproductive system.
State Right-to-Know Lists:	Massachusetts, New Jersey, Pennsylvania: This product does not contain any
_	chemicals listed for state right to know purposes.
Canada	This product has been classified in accordance with the hazard criteria of the
	Controlled Products Regulations and the SDS contains all the information
	required by the Controlled Products Regulations.
WHMIS Classification:	Not controlled
(for workplace exposures)	
New Substance	All ingredients in this product are listed, as required, on Canada's Domestic
Notification Regulations:	Substances List (DSL).
NPRI Substances:	Not applicable.



EC Classification for the Substance/Preparation	
Symbol:	This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
German Water Hazard Class	German Water Hazard Class WGK nwg. Non-water polluting substance.
Other regulations:	Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

SECTION 16 OTHER INFORMATION Text of R-phrases referred to in Section 3: N/A			
Text of H-Statements referred to in section 3:		. N/A	
		on 3: N/A	
Preparation Inf	ormation:		
Prepared by:		Green Belting Industries Limited	
		www.greenbelting.com	
Revision Date:		12 November 2013	
Revision Summ	ary:	Review of regulatory, hazard classification, exposure and toxicology data. No revisions to date.	
Abbreviations a	and acronyms:		
Section	Abbreviation	Description	
2	CFR	Code of Federal Regulations	
3	CAS	Chemical Abstracts Services	
3	OSHA	Occupational Safety and Health Administration USA	
3	ACGIH	American Conference of Governmental Industrial Hygienists	
3	PEL	Permissible Exposure Limit	
3	TLV	Threshold Limit Value	
3	SVHC	Substances of Very High Concern	
8	TWA	Time Weighted Average	
8	STEL	Short-Term Exposure Limit	
8	IDLH	Immediately Dangerous to Life or Health (NIOSH)	
8	NIOSH	National Institute for Occupational Safety and Health	
8	ppm	Parts per Million	
8	ppb	Parts per Billion	
11	LD ₅₀	"Lethal Dose, 50%" or median lethal dose (amount of substance required by body weight to kill 50% of the test population	



11	STOT	Specific Target Organ Toxicity	
12	PBT	Persistent, Bio-accumulative and Toxic	
12	vPvB	Very Persistent and Very Bio-accumulative	
14	DOT	Department of Transport	
14	ADR	Agreement on Dangerous Goods	
14	IATA	International Air Transport Association	
14	ACAO	International Civil Aviation Organisation	
14	IMO	International Maritime Organization	
14	IMDG	International Maritime Dangerous Goods	
14	TSCA	Toxic Substances Control Act	
15	SARA	Superfund Amendments and Reauthorization Act	
15	CERCLA RQ	Comprehensive Environmental Response Compensation and	
		Liability Act	
15	WGK	German Water Hazard Class	
15	WHMIS	Workplace Hazardous Materials Information System	
Disclaimer:	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		
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