

SECTION 1 IDENTIFICATION

1.1 Product Identifier

Product name: Fluorofab® Goldweld-6

Synonyms: Goldweld PTFE Coated Woven Glass

1.2 Relevant identified use of the product

Use of the Product: Industrial applications where high chemical and temperature resistance, excellent

release and good abrasion resistance is required.

1.3 Details of the supplier of the safety data sheet

Company: Green Belting Industries Limited

381 Ambassador Drive

Mississauga ON L5T 2J3 Canada

Telephone: +1 905 564 6712 (09:00 to 17:00 Eastern Standard Time)

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1.4 Emergency Telephone Number

North American +1 905 564 6712 Available between the hours 09:00 to 17:00 (EST)

Emergency Telephone

Number:

European Union +44 (0)1274 699425 Available between the hours 09:00 to 17:00

Emergency Telephone

Number:

(UTC/GMT)

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SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the Product

European Not a classified substance or mixture according to Regulation (EC) No. 1272/2008.

Communities (EC): Not 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
O 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 can cause the evolution of particulate matter which can cause "polymer fume fever" which is a temporary condition that can cause flu-like symptoms and eye and respiratory irritation. The smoking of tobacco contaminated with PTFE can cause this condition. Processing at temperatures higher than 400°C will result in thermal decomposition of fluorinated thermoplastics and may release carbonyl fluoride which hydrolyses to hydrogen fluoride and carbon dioxide by reacting with moisture in the air. Thermal decomposition products may also include carbon monoxide and oxides of potassium. 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: Goldweld PTFE coated woven glass fabric

3.1 Substances

Not Applicable

3.2 Mixtures

Ingredient Name	CAS Number	% by Weight	Exposure Limits	Symbol	Risk Phrases
Polytetrafluoroethylene	9002-84-0	5 - 69	N/A	None	None
Glass Fibre (fiberglass cloth)	65997-17-3	31 - 95	OSHA PEL - 5 mg/m ³ ACGIH TLV - 5mg/m ³	None	None
Proprietary Additive A	Proprietary	1 - 2	N/A	None	None
Proprietary Additive B	Proprietary	0.1 -0.5	OSHA PEL - 5 mg/m ³ ACGIH TLV - 5mg/m ³	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 AID MEASURES

4.1 Description of First Aid Measures

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. Processing at high temperature may generate fumes which can cause "polymer fume fever" leading to flu-

like symptoms. Remove to fresh air and consult a physician if severe.

Skin Contact: Not normally considered hazardous, however 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.

Eye Contact: 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.

Ingestion: If swallowed get medical advice. Do not induce vomiting unless instructed to do so by

medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Local irritation.

The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco. Symptoms may be delayed. Repeated episodes of polymer fume fever may result in persistent lung effects. Inhalation of decomposition products from overheating

may cause lung irritation or shortness of breath.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: Water spray, Carbon dioxide (CO2), Foam, Dry Chemical

5.2 Special hazards arising from the product

Specific hazards during fire- Hazardous thermal decomposition products.

fighting: Hydrogen fluoride, fluorinated compounds, carbon oxides,

perfluoroisobutylene, tetrafluoroethylene, hexafluoropropylene and

trifluoromethane and oxides of potassium.

Exposure to decomposition products can be a hazard to health.



SECTION 5 FIRE FIGHTING MEASURES

5.3 Advice for firefighters

Special protective equipment Wear self-contained breathing apparatus and protective suit. Wear neoprene

for firefighters: gloves during cleaning up work after a fire.

Further information: Protect from hydrogen fluoride fumes which react with water to form

hydrofluoric acid.

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 Precautions

Environmental N/A - solid product

Precautions

6.3 Methods and materials 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 generated during fabrication vacuum up and containerise.

6.4 Reference to other sections

For disposal instructions see section 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

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.

Wash hands thoroughly before smoking as tobacco contaminated with PTFE can

cause "polymer fume fever".

Advice on protection against fire and

Dispose of in accordance with local regulations as a solid non-hazardous waste and

avoid inappropriate disposal practices.

explosion: Do not incinerate polytetrafluoroethylene (PTFE) waste.

Provide appropriate exhaust ventilation at places where dust or volatiles can be

generated.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and

No special precautions necessary, but recommend storing in a dry cool place and

protecting from contamination.

containers:



Advice on common

No special restrictions on storage with other products. Keep away from tobacco

storage: products.

Storage temperature: No special restrictions.

Other data: Do not store in direct sunlight or in conditions of high humidity.

SECTION 8 EXPOSURE CO	NTROLS / PERSO	NAL PROTECTION			
8.1 Control Parameters					
In situations in confined s	•	perfluoroisobutylene	TLV TWA 10ppb	TLV STEL -	IDLH (NIOSH) -
the temperature of the polymer exceeds 500°F (260° C), thermal degradation products may be produced. Exposure limits for these products, which include perfluoroisobutylene, carbonyl fluoride and hydrogen fluoride, must not be exceeded.		carbonyl fluoride	2ppm TWA	5ppm	-
		hydrogen fluoride	0.5ppm	2ppm ceiling	30ppm
hour TWA (total dust fraction)			5mg/m³ – nuisance dust PEL (respirable dust fraction) 15mg/m³ – 8 hour TWA (total dust	ACGIH-TLV 5mg/m³ - 8 hour TWA (inhalable) 1 fiber/cm³ - 8 hour TWA (respirable)	Other 3 x 10 ⁶ fibers/m ³ - 10 hour TWA (NIOSH)
8.2 Exposure Controls					
Engineering measures: Eye protection:	below recomme recommended when working was Throughout bas	ng or sanding of the proceed the proceed the property at the operation source. With the product at elevantic product handling proceeds, safety glasses, goggass, safety glasses, goggasses,	designed dust conducted Adequate vention temperature cesses, and when	ollection syster ilation must be es. never handling	m is e provided g materials
Hand protection:	Throughout basic product handling processes, leather or synthetic fibre gloves are recommended to minimize cuts and abrasions.				
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. These substances may include perfluoroisobutylene (TLV = 10ppb), carbonyl fluoride (TLV = 2ppm TWA, 5ppm STEL), hydrogen fluoride (TLV =

2ppm ceiling, 0.5ppm TWA).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES					
9.1 Information on basic phy	sical and chemical prope	rties			
Appearance:	Gold colour, various thicknesses	Upper/lower flammability or explosive limits:	N/A		
Physical state:	Solid	Vapour pressure:	N/A		
Odour:	Odourless	Vapour density:	N/A		
Odour threshold:	N/A	Relative density:	N/D		
pH:	N/A	Solubility(ies):	Insoluble		
Melting point/freezing point:	N/A	Partition coefficient: n- octanol/water:	N/A		
Initial boiling point and boiling range:	N/A	Auto-ignition temperature:	N/A		
Flash point:	N/A	Decomposition temperature:	572°F (300°C)		
Evaporation rate:	N/A	Viscosity:	N/A		
Flammability (solid, gas):	N/D				



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: Alkali metals, Strong oxidizing agents, Halogenated compounds

10.6 Hazardous decomposition products: May include:

Fluorinated hydrocarbons, Carbonyl fluoride, Hydrogen fluoride,

Result: No skin irritation

carbon oxides, perfluoroisobutylene, tetrafluoroethylene,

hexafluoropropylene, trifluoromethane.

SECTION 11 TOXICOLOGICAL INFORMATION	SECTION	11 TOXICOL	OGICAL INI	FORMATION
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11.1 Information on toxicological effects

Acute oral toxicity Polytetrafluoroethylene Proprietary Additives

LD50 / rat : > 11,280 mg/kg no data available

Skin irritation May cause skin irritation in susceptible persons.

Polytetrafluoroethylene Polytetrafluoroethylene

Human Rabbit

Classification: Not classified as Classification: Not classified as irritant

irritant

Result: No skin irritation

Proprietary Additives no data available Proprietary Additives

Eye irritation Polytetrafluoroethylene Proprietary Additives

Mild eye irritation no data available

Sensitisation Polytetrafluoroethylene

Human

Classification: Not a skin sensitizer. Result: Does not cause skin sensitization.

Patch test on human volunteers did not demonstrate sensitization properties.

Proprietary Additives no data available



Repeated dose toxicity Polytetrafluoroethylene Oral - feed rat - no toxicologically significant effects

were found.

Proprietary Additives -no data available

Mutagenicity assessment Polytetrafluoroethylene

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Proprietary Additives - no data available

Carcinogenicity assessment Polytetrafluoroethylene Proprietary Additives

Not classifiable as a human Not classifiable as a human carcinogen

carcinogen

Toxicity to reproduction

assessment

Polytetrafluoroethylene and Proprietary Additives

No data available

STOT-Single exposure No data available

STOT-Repeated exposure No data available

Aspiration hazard Not applicable

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity Toxicity to fish (Polytetrafluoroethylene) - the substance is a

polymer and is not expected to produce toxic effects.

Proprietary Additives – no data available

12.2 Persistence and degradabilityno data available12.3 Bio-accumulative potentialno data available12.4 Mobility in soilno data available

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

no data available

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 hydrogen

fluoride and other 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 m	eaning of transpor	t.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:		Not applicable			

SECTION 15 REGULATORY INFORMATION				
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
USA TSCA Status:	All ingredients in the product are listed in the TSCA inventory			
isca status.	All highesteries in the product are listed in the 130A 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: (for workplace exposures)	Not controlled			



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.

15.2 Chemical Safety Assessment

No data available

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

Preparation Information:

Prepared by: Green Belting Industries Limited

www.greenbelting.com

Revision Date: 7 December 2013

Revision Summary: Review of regulatory, hazard classification, exposure and

toxicology data. No revisions to date.

Abbreviations 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



STOT	Specific Target Organ Toxicity		
PBT	Persistent, Bio-accumulative and Toxic		
vPvB	Very Persistent and Very Bio-accumulative		
DOT	Department of Transport		
ADR	Agreement on Dangerous Goods		
	Lethal Dose, 50%" or median lethal dose (amount of substance required by body weight to kill 50% of the test population		
IATA	International Air Transport Association		
ACAO	3		
IMO International Maritime Organization			
IMDG International Maritime Dangerous Goods			
TSCA Toxic Substances Control Act			
SARA Superfund Amendments and Reauthorization Act			
CERCLA RQ Comprehensive Environmental Response Compensation and Liability Act			
WGK German Water Hazard Class			
WHMIS Workplace Hazardous Materials Information System			
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			
	PBT vPvB DOT ADR IATA ACAO IMO IMDG TSCA SARA CERCLA RQ WGK WHMIS The information, and as a guide for sa and is not to be relates only to t		

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