

SAFETY DATA SHEET
Fluorofab® 160 SERIES THERMAL SPRAY MASKING TAPE

SECTION 1 IDENTIFICATION**1.1 Product Identifier**

Product name: Fluorofab® 160-5S
 160-5S HT

Synonyms: Woven Glass Fabric Coated with Silicone Adhesive

1.2 Relevant identified use of the product

Use of the Product: Masking for high temperature metalizing and plasma spray applications

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)

Telefax: +1 905 564 6709

E-mail address: sds-support@greenbelting.com

European Union Contact: Biscor Limited
 8 Kingsmark Freeway
 Bradford
 West Yorkshire
 BD12 7HW
 United Kingdom

Telephone: +44 (0)1274 694684 (09:00 to 17:00 UTC/GMT)

Telefax: +44 (0)1274 694685

1.4 Emergency Telephone 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)

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SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the Product

European Communities (EC):	Not a classified substance or mixture according to Regulation (EC) No. 1272/2008.
USA:	Not classified as dangerous according to Directive 67/548/EEC.
Canada:	Not a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Standard.
	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: 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
Glass Fibre (fibreglass cloth)	65997-17-3	65 - 75	OSHA PEL - 5 mg/m ³ ACGIH TLV - 5mg/m ³	None	None
Polysiloxane Adhesive	556-67-2	25 - 35	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.

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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. At sustained high temperature processing fumes can be generated which could lead to irritation to the respiratory system. Remove to fresh air 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. Skin contact with the adhesive or fibrous dust may cause skin irritation. Wash with plenty of soap and water. If irritation persists get medical attention.
Eye Contact:	Fibrous dust may cause eye irritation. Wash with plenty of soap and water. If irritation persists get medical attention.
Ingestion:	Ingestion:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Local irritation.

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-fighting: Hazardous thermal decomposition products.
Carbon dioxide, carbon monoxide, low molecular weight hydrocarbons and silicon dioxide
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: Observe local regulations when contaminated water and burning waste are removed.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions: For solid product none required.
 For any dusts and fibres generated during processing use protective equipment to prevent the contamination of skin, eyes, and clothing.

6.2 Environmental Precautions

Environmental Precautions: N/A - solid product

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 fibrous dust during processing 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 after use.

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 fibres, dust or volatiles can be generated.

7.2 Conditions for safe storage, 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: Avoid excessive temperatures.

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

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters			
<p>In situations in confined spaces where the temperature exceeds 500°F (260° C), thermal degradation products may be produced. Exposure limits for these products, which include carbon monoxide, carbon dioxides, low molecular weight hydrocarbons and silicone dioxide, must not be exceeded.</p>			
	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>Other</u>
<p>In situations where high levels of airborne dust/glassfibers are present specified exposure limits must not be exceeded.</p>	<p>5mg/m³ – nuisance dust PEL (respirable dust fraction) 15mg/m³ – 8 hour TWA (total dust fraction)</p>	<p>5mg/m³ - 8 hour TWA (inhalable) 1 fiber/cm³ - 8 hour TWA (respirable)</p>	<p>3 x 10⁶ fibers/m³ - 10 hour TWA (NIOSH)</p>
8.2 Exposure Controls			
Engineering measures	<p>Processing may produce fibrous dust, therefore it is necessary to maintain exposures below recommended limits, so a properly designed dust collection system is recommended at the operation source. Adequate ventilation must be provided when working with the product at elevated temperatures.</p>		
Eye protection:	<p>Throughout basic product handling processes, and whenever handling materials containing fiberglass, safety glasses, goggles or face shields should be worn.</p>		
Hand protection:	<p>Throughout basic product handling processes, leather or synthetic fibre gloves are recommended to minimize cuts and abrasions.</p>		
Skin and body protection:	<p>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.</p>		
Hygiene measures:	<p>Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product and 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.</p>		
Respiratory protection:	<p>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 product 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 be harmful and these substances may include carbon monoxide, carbon dioxide, low molecular weight hydrocarbons and silicone dioxide, must not be exceeded.</p>		

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	White glass fabric self-wound fabric	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	Solubility(ies):	Insoluble
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:	N/A	Decomposition temp:	Glass 2100°F (1150°C) Cured Adhesive 300°C
Viscosity:	N/A		

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 oxidizing agents, Acids, Bases
10.6 Hazardous decomposition products:	May include: Carbon monoxide, carbon dioxide, low molecular weight hydrocarbons and silicone dioxide.

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SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	Glass fibre diameter determines whether the fibre is respirable. NOISH has determined that man-made mineral fibres with diameters equal or greater than 3.5 microns are non-respirable. Respirable fibres will penetrate deep into the lungs. All E-glass continuous filament fiberglass has a fibre diameter larger than 3.5 microns and therefore are non-respirable No data available for product itself
Primary Routes of Potential Exposure	Inhalation, skin and eye contact.
Skin irritation	May cause skin irritation in susceptible persons. Some people who come into contact with this glass fibre experience reddening and itching of the skin. Those who are subject to this effect are most likely to experience it when handling the materials for the first time. People with a history of skin complaints may be particularly susceptible to irritation and therefore should minimise their contact with the material. No data available for product itself
Eye irritation	Eye Irritation Entry of glass fibre into the eye will cause foreign body irritation. Carcinogenicity Continuous glass filament has been reported as a material 'Not classified as to human carcinogenicity.' No data available for product itself
Inhalation	Glass dust from this product is not regarded as respirable due to the large diameter of the continuous filaments used, and the levels of dust likely to arise from most operations, involving the handling and use of the materials, will be negligible. No data available for product itself
Sensitisation	May cause skin irritation in susceptible persons. No data available for product itself
Repeated dose toxicity	No data available
Mutagenicity assessment	No data available
Carcinogenicity assessment	IARC, ACGIH and OSHA have found that the continuous fiberglass filaments are not considered to be carcinogenic based on human and animal tests conducted within the last 10 years. No data available for the product itself.
Toxicity to reproduction assessment	No data available
STOT-Single exposure	No data available
STOT-Repeated exposure	No data available
Aspiration hazard	Not applicable

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SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	This material is not bio-degradable and not expected to cause harm to animals, plants or fish.
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.
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SECTION 14 TRANSPORT INFORMATION

	14.1 UN Number	14.2 Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 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				

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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

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 Notification Regulations: All ingredients in this product are listed, as required, on Canada's Domestic 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

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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)
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



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