SAFETY DATA SHEET
Fluorofab® ULTRA HIGH MOLECULAR WEIGHT POLYOLEFIN FILM WITH ACRYLIC ADHESIVE

SECTION 1 IDENTIFICATION

1.1 Product Identifier

Product name: 130-5A
130-10A

Synonyms: Ultra-High Molecular Weight Polyolefin Film with an Acrylic Adhesive

1.2 Relevant identified use of the product

Use of the Product: Industrial applications where high abrasion and puncture resistance are required along with non-stick and low coefficient of friction properties

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 Unit 1 Broadfield Business Park Pilsworth Road Heywood OL10 2TA United Kingdom	
Telephone:	+44 (0)1706 396690	(09:00 to 17:00 UTC/GMT)
Telefax:	+44 (0)1706 396691	

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)1706 396690	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. 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
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 392°F (200°C) can cause nuisance fumes and inhalation of decomposed products and dust can be irritating to the upper respiratory tract.
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: Ultra High Molecular Weight Polyolefin with acrylic adhesive and polyethylene inter-liner

3.1 Substances

Not Applicable

3.2 Mixtures

Ingredient Name	CAS Number	% by Weight	Exposure Limits	Symbol	Risk Phrases
Polyethylene (UHMW-PE)	9002-88-4	34-63	N/A	None	None
Polyvinyl Ester Polymer	Proprietary	19-34	N/A	None	None
Polyethylene (PE) inter-liner	9002-88-4	18-32	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.

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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. If the product /liner 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. For skin contact with the adhesive, product or liner, dust caused by cutting, sawing or sanding may cause skin irritation, wash with plenty of soap and water. If irritation persists get medical attention. If contact with hot (melt) product/liner occurs, wash with plenty of water and treat as for thermal burn.
Eye Contact:	For material dust caused by cutting the product or liner, 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. For product and liner, after inhalation of decomposed products, nuisance fumes and dust can be irritating to the upper respiratory tract.

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 (CO_2), Foam, Dry Chemical

5.2 Special hazards arising from the product

Specific hazards during fire-fighting:	For both product and liner hazardous thermal decomposition products include carbon monoxide, carbon dioxide and soot. Exposure to decomposition products can be a hazard to health.

SECTION 5 FIRE FIGHTING MEASURES

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:	Product and liner may be combustible at high temperatures. 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 generated during fabrication 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 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 both product and liner are the generation of dust during fabrication and the inhalation of thermal decomposition products when the product is subjected to temperatures greater than 392°F (200°C). Provide appropriate exhaust ventilation at places where dust or volatiles can be generated.
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.

7.2 Conditions for safe storage, including any incompatibilities	
Requirements for storage areas and containers:	Take precautionary measures to avoid a fire hazard, recommend storing in a dry cool place and protecting from contamination, without direct exposure to sunlight.
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.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

In situations in confined spaces where the temperature of the product and liner exceeds 536°F (280° C), thermal degradation products include carbon monoxide, carbon dioxide, dense smoke and various hydrocarbons.

In situations where high levels of airborne dust are present specified exposure limits must not be exceeded.	OSHA-PEL 5mg/m^3– nuisance dust PEL (respirable dust fraction) 15mg/m^3 – 8 hour TWA (total dust fraction)

8.2 Exposure Controls

Engineering measures:	If cutting, sawing or sanding of the product is necessary, to maintain exposures below recommended limits, 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.
Eye protection:	Throughout basic product handling processes, safety glasses, goggles or face shields should be worn.
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 dust.
Hygiene measures:	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 areas and consider the use of barrier creams which can minimise irritation. Always use vacuum equipment to remove 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 dusts 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 392°F (200° C), an air supplied respirator should be used.
In situations where there are high levels of airborne dust or fume, use industrial hygiene monitoring to ensure that TLV or PEL values are not exceeded.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Clear product with blue liner.	Upper/lower flammability or explosive limits:	N/A
Physical state:	Solid	Vapour pressure:	N/A
Odour:	Odourless under normal conditions When melted both product and liner have specific odour known as “plastic”	Vapour density:	N/A
Odour threshold:	N/A	Relative density:	N/D
pH:	N/A	Solubility(ies):	Insoluble in Water
Melting point/freezing point:	N/A	Partition coefficient: n-octanol/water:	N/A
Initial boiling point and boiling range:	N/A	Auto-ignition temp:	N/A
Flash point:	N/A	Decomposition temperature:	Product/liner 536°F (280°C)
Evaporation rate:	N/A	Viscosity:	N/A
Flammability (solid, gas):	N/D		

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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 and Aromatic Solvents
10.6 Hazardous decomposition products:	May include: Carbon monoxide, carbon dioxide and aliphatic hydrocarbons.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	Polyethylene Recognised as safe and biologically inert	LD50 / rat : > 5,000 mg/kg
Irritation		
Skin	No data available	
Eyes	No data available	
Respiratory	No data available	
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 effects		
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 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	Toxicity to fish. Polyethylene is a polymer and not expected to produce toxic effects
12.2 Persistence and degradability	Not readily biodegradable
12.3 Bio-accumulative potential	Not expected to accumulate through food-chain
12.4 Mobility in soil	Low mobility in soil
12.5. Results of PBT and vPvB assessment	No data available
12.6. Other adverse effects	
Additional ecological information	No known significant effects or critical hazards Is not biodegradable and not toxic to aquatic organisms

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. Within the present knowledge of the supplier, the product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC

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				

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: Sec. 311/312: Sec 313: CERCLA RQ:	 None Not applicable Not applicable 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 Notification Regulations: NPRI Substances:	All ingredients in this product are listed, as required, on Canada's Domestic Substances List (DSL). 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:	January 1, 2016
Revision Summary:	Updated EU contact info

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
8	MHSA	Manufacturers Health and Safety Association
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
14	MARPOL	Marine Pollution from Ships
14	IBC	International Building Code
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 is altered or processed, unless specified in the text.