

## SAFETY DATA SHEET

## Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE

## SECTION 1 IDENTIFICATION

## 1.1 Product Identifier

Product name: Fluorofab® 100-3S, 100-3S NL, 100-3S PR, 100-3S PR NL  
 100-5 S, 100-5S NL, 100-5S PR, 100-5S PR NL  
 100-6S, 100-6S NL, 100-6S PR, 100-6S PR NL, 100-6S ME,  
 100-8 S SW  
 100-10 S, 100-10S NL, 100-10S PR, 100-10S ME  
 100-14 S, 100-14S PR

Synonyms: PTFE Coated Woven Glass with Silicone Adhesive

## 1.2 Relevant identified use of the product

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

Telefax: +1 905 564 6709

E-mail address: [sds-support@greenbelting.com](mailto: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)

## SECTION 2 HAZARD IDENTIFICATION

## SAFETY DATA SHEET

## Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE

**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 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, 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
Poly-tetrafluoroethylene	9002-84-0	25 - 57	N/A	None	None
Glass Fibre (fiberglass cloth)	65997-17-3	33 - 49	OSHA PEL - 5 mg/m <sup>3</sup> ACGIH TLV - 5mg/m <sup>3</sup>	None	None
Polysiloxane Adhesive	556-67-2	7 - 19	N/A	None	None
Polyvinyl Chloride (inter-liner)	9002-86-2	7 - 19	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 AID MEASURES**

## SAFETY DATA SHEET

## Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE

**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. Product - 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. 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 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. For inter-liner, after inhalation of decomposed products, symptomatic treatment (decontamination, vital functions), if necessary take action against irritation of the mucous membranes by HCl.
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**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment:	Treat symptomatically.
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## SAFETY DATA SHEET

## Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE

## SECTION 5 FIRE FIGHTING MEASURES

## 5.1 Extinguishing Media

Suitable extinguishing media: Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry Chemical

## 5.2 Special hazards arising from the product

Specific hazards during fire-fighting: Hazardous thermal decomposition products.  
 For adhesive coated PTFE glass - hydrogen fluoride, fluorinated compounds, carbon oxides, perfluoroisobutylene, tetrafluoroethylene, hexafluoropropylene and trifluoromethane, 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.

## 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: Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid and for inter-liner 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 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.

**SAFETY DATA SHEET**  
**Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE**

**SECTION 7 HANDLING AND STORAGE**

<b>7.1 Precautions for safe handling</b>	
Advice on safe handling:	<p>Solid product which presents minimal hazards to personnel when handling in accordance with operating and storage recommendations.</p> <p>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.</p> <p>Provide appropriate exhaust ventilation at places where dust or volatiles can be generated.</p> <p>Wash hands thoroughly before smoking as tobacco contaminated with PTFE can cause “polymer fume fever”.</p> <p>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.</p>
Advice on protection against fire and explosion:	<p>Dispose of in accordance with local regulations as a solid non-hazardous waste and avoid inappropriate disposal practices.</p> <p>Do not incinerate poly-tetrafluoroethylene (PTFE) or polyvinyl chloride (PVC) waste.</p> <p>Provide appropriate exhaust ventilation at places where dust or volatiles can be generated.</p> <p>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). PVC is not dust explosive in its delivered state.</p>
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
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. Keep away from tobacco products.
Storage temperature:	Avoid excessive temperatures.
Other data:	Do not store in direct sunlight or in conditions of high humidity.

**SAFETY DATA SHEET**  
**Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE**

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control Parameters**

		TLV TWA	TLV STEL	IDLH (NIOSH)
In situations in confined spaces where the temperature of the fabric 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.	perfluoroisobutylene	10ppb	-	-
	carbonyl fluoride	2ppm TWA	5ppm	-
	hydrogen fluoride	0.5ppm	2ppm ceiling	30ppm
In situations in confined spaces where the temperature of the inter-liner exceeds 248°F (120° C), thermal degradation products may be produced. Exposure limits for these products, which include hydrogen chloride, must not be exceeded.	hydrogen chloride	2ppm ceiling	5ppm ceiling	50ppm
PVC is recognized as safe, however it may contain trace amounts of vinylchloride monomer (VCM), CAS-N. 75-01-04, EINECS-No. 2008310. MAK-Value:2ppm (5mg/m <sup>3</sup> ) Germany as TRK-value according to TRGS 102). For supplied inter-liner, a VCM value of ≤ 0.5ppm is guaranteed. Given the special precautions mentioned in section 7, these traces present no toxic risk to the processing personnel. Gloves should be worn when handling hot material. Safety glasses are normally recommended for all industrial workplaces when handling hot material.				
In situations where high levels of airborne dust/glassfibers are present specified exposure limits must not be exceeded.		<u>OSHA-PEL</u> 5mg/m <sup>3</sup> – nuisance dust PEL (respirable dust fraction) 15mg/m <sup>3</sup> – 8 hour TWA (total dust fraction)	<u>ACGIH-TLV</u> 5mg/m <sup>3</sup> - 8 hour TWA (inhalable) 1 fiber/cm <sup>3</sup> - 8 hour TWA (respirable)	<u>Other</u> 3 x 10 <sup>6</sup> fibers/m <sup>3</sup> - 10 hour TWA (NIOSH)

**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, and whenever handling materials

## SAFETY DATA SHEET

## Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE

	containing fiberglass, 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 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:	<p>Handle in accordance with good industrial hygiene and safety practices.</p> <p>Wash hands immediately after handling the product and do not contaminate tobacco products.</p> <p>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.</p> <p>Always use vacuum equipment to remove fibres and dust from clothing and never use compressed air.</p> <p>Contaminated clothes should always be washed separately.</p>
Respiratory protection:	<p>Not required for normal use of the product.</p> <p>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.</p> <p>In situations in confined spaces where the temperature of the polymer exceeds 500°F (260° C), an air supplied respirator should be used.</p> <p>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.</p> <p>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).</p>

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Light tan, black, with yellow liner.	<b>Flammability (solid, gas):</b>	N/D
<b>Physical state:</b>	Solid	<b>Upper/lower flammability or explosive limits:</b>	N/A
<b>Odour:</b>	Odourless	<b>Vapour pressure:</b>	N/A
<b>Odour threshold:</b>	N/A	<b>Vapour density:</b>	N/A
<b>pH:</b>	N/A	<b>Relative density:</b>	N/D

## SAFETY DATA SHEET

## Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE

<b>Melting point/freezing point:</b>	N/A to product Inter-liner softening temperature 60-90°C Glass transition temp approx. 80°C	<b>Solubility(ies):</b>	Product - Insoluble Inter-liner soluble in tetrahydrofuran and cyclohexanone, partly soluble in some aromatic hydrocarbons
<b>Initial boiling point and boiling range:</b>	N/A	<b>Partition coefficient: n-octanol/water:</b>	N/A
<b>Flash point:</b>	N/A	<b>Auto-ignition temp:</b>	N/A
<b>Evaporation rate:</b>	N/A	<b>Decomposition temp:</b>	Product 572°F (300°C) Inter-liner -> 150°C (long term contact)
<b>Viscosity:</b>	N/A		>200°C (short term contact)

## SECTION 10 STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	Stable at normal ambient temperature and pressure
<b>10.2 Chemical stability:</b>	Product is chemically stable
<b>10.3 Possible hazardous reactions:</b>	Stable under recommended storage conditions
<b>10.4 Conditions to avoid:</b>	Avoid heating for prolonged periods above the recommended upper usage limit
<b>10.5 Incompatible materials:</b>	Alkali metals, Strong oxidizing agents, Halogenated compounds
<b>10.6 Hazardous decomposition products:</b>	May include: Fluorinated hydrocarbons, Carbonyl fluoride, Hydrogen fluoride, carbon oxides, perfluoroisobutylene, tetrafluoroethylene, hexafluoropropylene, trifluoromethane, silicon dioxide, and hydrogen chloride (for the inter-liner).

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>		
Acute oral toxicity	Polytetrafluoroethylene	LD50 / rat : > 11,280 mg/kg
	PVC (inter-liner)	Recognised as safe and biologically inert
Skin irritation	May cause skin irritation in susceptible persons.	
	Polytetrafluoroethylene Human Classification: Not classified as irritant Result: No skin irritation	Polytetrafluoroethylene Rabbit Classification: Not classified as irritant Result: No skin irritation



## SAFETY DATA SHEET

## Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE

Eye irritation	Mild eye irritation
Sensitisation	<p>Polytetrafluoroethylene Human Classification: Not a skin sensitizer. Result: Does not cause skin sensitization. Patch test on human volunteers did not demonstrate sensitization properties.</p>
Repeated dose toxicity	<p>Polytetrafluoroethylene Oral - feed rat - no toxicologically significant effects were found.</p>
Mutagenicity assessment	<p>Polytetrafluoroethylene Tests on bacterial or mammalian cell cultures did not show mutagenic effects.</p>
Carcinogenicity assessment	<p>Polytetrafluoroethylene Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Not classifiable as a human carcinogen.</p>
Toxicity to reproduction assessment	<p>Polytetrafluoroethylene No toxicity to reproduction</p>
STOT-Single exposure	No data available
STOT-Repeated exposure	No data available
Aspiration hazard	Not applicable

## SECTION 12 ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	<p>Toxicity to fish (Polytetrafluoroethylene) - the substance is a polymer and is not expected to produce toxic effects. PVC 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.</p>
<b>12.2 Persistence and degradability</b>	no data available
<b>12.3 Bio-accumulative potential</b>	no data available
<b>12.4 Mobility in soil</b>	no data available
<b>12.5. Results of PBT and vPvB assessment</b>	no data available
<b>12.6. Other adverse effects</b>	
<b>Additional ecological information</b>	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.
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## SAFETY DATA SHEET

## Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE

## 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
<b>14.6 Special precautions for user:</b>	Not classified as dangerous in the meaning of transport.				
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:</b>	Not applicable				

## SECTION 15 REGULATORY INFORMATION

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>USA</b>	
<b>TSCA Status:</b>	All ingredients in the product are listed in the TSCA inventory
<b>SARA Title III</b>	
Sec. 303/304:	None
Sec. 311/312:	Not applicable
Sec 313:	Not applicable
CERCLA RQ:	Not applicable
<b>California Prop 65:</b>	This product does not contain chemicals known to the State of California to cause cancer of the reproductive system.
<b>State Right-to-Know Lists:</b>	Massachusetts, New Jersey, Pennsylvania: This product does not contain any chemicals listed for state right to know purposes.
<b>Canada</b>	
	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.
<b>WHMIS Classification: (for workplace exposures)</b>	Not controlled
<b>New Substance Notification Regulations:</b>	All ingredients in this product are listed, as required, on Canada's Domestic Substances List (DSL).
<b>NPRI Substances:</b>	Not applicable.

## SAFETY DATA SHEET

## Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE

## 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](http://www.greenbelting.com)

**Revision Date:** 19 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

**SAFETY DATA SHEET**  
**Fluorofab® PTFE COATED GLASS FABRIC WITH SILICONE ADHESIVE**

11	LD <sub>50</sub>	"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
<b>Disclaimer:</b>		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.