

## 11. Toxicological Information

Acute Toxicity:	none
Local effects:	Irritations (temporary) can affect skin, eyes and upper respiratory tracts. Impact stops after leaving scene of exposure According to 67/548/EEC standard no classification needed, because 97/69/EC standard states glass filaments do not need a special code Xi (irritant)
Carcinogenicity:	The IARC has categorized fibre glass continuous filament as not classifiable within human carcinogenicity (Group 3) NIOSH defines "respirable fibres" as greater than 5 µm in length and less than 3 µm diameter with an aspect ratio of > 5:1 (length-width ratio). Novaflex® products are made of fibres with diameters > 3 µm.
Practical experience:	People react differently to glass fibres. Some have no reaction, while some show heavy irritation. Sensitisation is possible
Ingredient Information:	Glass filament sizes do not contain PCB or polyaromaticals

## 12. Environmental Protection

Ecological toxicity:	Glass filaments and sizes are not listed as ozone layer-destroying according to Montreal protocol 1987(class 1 or 2). These catalogues are an essential part of EC regulation Nr.3093/94 and the amendment of the "Clean Air Act" of the American Environment Agency (EPA).
Mobility:	n/a
Persistence and degradability:	Glass is not biodegradable. Sizes are organic materials which could only slowly and partially decompose in water. Since concentration and solubility of the components used in the composition is very low and is considered as not dangerous, glass yarns do not have any negative Eco toxicological impacts.
Biological accumulation:	n/a
Result of evaluation of PTB-properties:	n/a

## 13. Disposal Considerations

Always respect local disposal regulations	
Material/Formulation:	Glass product made of continuous or cut glass fibres, conglutinated filaments / with wire and polyurethane coating
Recommendation:	Treat as inactive disposal or general industrial waste

## 14. Transportation Information

Glass filament products are not considered as dangerous or hazardous according to transportation regulations and are therefore subject to no special procedure via road, sea, or air transport.

## 15. Regulatory Information

Glass filament products are not considered as dangerous or hazardous and have no special requirements under labelling or general national regulations. Respect general Health and Safety regulations.

## 16. Other information

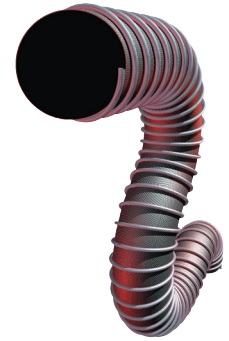
This data sheet completes technical data sheets for use but does not replace them. The information given in this document corresponds to our relative knowledge of the product concerned, at the mentioned date. It is given in good faith.

Furthermore, users' attention is drawn to the possible risks run when the product is used for another purpose other than for which it was designed, or under conditions that exceed its limits. In no case does it exempt the user from knowing and applying the rules regulating the user's activities. The user will take sole responsibility for precautions regarding the way the product is used.

End of the Safety Data Sheet



**NOVAFLEX®**  
PROVIDING HOSE & DUCT SOLUTIONS



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### U-LOK® 1000, U-LOK® 1500 & 2000 High Temperature Ducting Safety Sheet

**U-Lok® 1000, U-Lok® 1500 and U-Lok® 2000** high temperature service ducts are constructed with asbestos free reinforced fabric. This fabric, woven E-glass, has a coating to improve air leakage resistance. When first used at elevated temperatures, the hose will release low temperature smoke. Initial use of duct at elevated temperatures should be conducted in a well-ventilated area. Avoid inhalation of any off gassing. Refer to safety data section.

#### LIMITATIONS

Novaflex® Duct and Hoses are designed to be used in an extraction system where the fan is downstream from the heat and fume source. Air velocities at elevated temperatures should be less than 165 ft/s (50 m/s). The inclusion of particulates in exhausts will cause abrasion of inner surface of ducting. All ducting manufactured by Novaflex® are warranted to be free from defects in material and workmanship. It is impossible to test Novaflex® ducting under all the conditions to which it might be subjected in the field. It is therefore the buyer and/or end user's responsibility to test all Novaflex® ducting under conditions that duplicate the service conditions prior to installation.

#### INSTALLATION PRECAUTIONS

Before the duct is put into working service it should be connected to the appliance and heated to normal working temperature. This should be done in a well-vented area outside of normal working hours, i.e. the night before use. When heated, the hose may exhibit burn off for a short period of time.

Metal long radius elbows are recommended where sharp bends are used.

After this first application the hose should no longer smoke when heated and is ready for normal working use. The hose should be stored in a dry area to protect the fabric from mildew and aging. This duct should not be suspended with wire; use slings where necessary.

The information provided within is for informational purposes only. We have made every effort to ensure the accuracy of the provided information and assume no responsibility for any loss or damage due to errors or omissions or to the use or misuse of any information supplied. It is impossible to test all products under all conditions to which they might be subjected in the field. It is therefore the buyer and/or end users' responsibility to test all products under the conditions that duplicate the service conditions prior to installation. All improvements, all specifications are subject to change without prior notice. It is the buyer and/or end users' responsibility to review our complete **Terms and Conditions of Sale** located on our web sites at: [www.novaflex.com](http://www.novaflex.com) | [www.z-flex.com](http://www.z-flex.com) | [www.flexmaster.com](http://www.flexmaster.com).

# Safety Data Sheet

In accordance with the EC Commission Directive 91/155/EEC

Product Name: Glass Fabric 2003 V4A G 2

Filament Textile Glass Fabric 08.1999

## 1. Company Identification

Producer/Supplier: Novaflex Hose  
20 East Pearce Street, Unit 1  
Richmond Hill, ON L4B 1B7  
Tel: (905)731-9411 Fax: (905)731-7086

## 2. Composition/Component Information

Base materials are E-, ECR-, and silicate glass threads of endless filaments and a size.

CAS-no.: 65997-17-3

According to regulations 67/548/EEC and the American standard TSCA, textile E-glass is not a substance but a product made of E-glass in form of continuous glass fibres and a size.

The used V4A-wire is a stainless steel containing a nickel concentration of more than 1%, which is firmly metal bonded in the material. It does not represent any hazards for persons or the environment. Polyurethane coating is a mixture of polyetherurethane with functional fillers and colour pigments.

Composition of Product:

- E-, ECR-, and silicate glass fibers
- Sizing
- Wire (optional)
- Polyurethane with functional fillers

Materials with prescribed EC limited values: none

## 3. Potential Health Effects

Products made of E-, ECR-, and silicate glass are not classified as dangerous. Filaments are larger than 3 µm and are therefore "irrespirable". It is proved that they do not cause lung cancer.

Additional Risks:

Fibre glass filament is a mechanical irritant. Breathing dust and fibres may cause temporary irritation of mouth, nose, and throat. Skin contact may cause temporary mechanical irritation.

## 4. First Aid

Inhalation: Move from scene of exposure, breath fresh air  
Skin Contact: Clean with lukewarm water, do not rub, use adipose cream or emulsion  
Eye Contact: Flush well with running water for 10 minutes, do not rub

## 5. Fire Fighting Measures

Applicable extinguishing device: All common types  
Inapplicable extinguishing device: n/a  
Special hazard caused by material, formulation, combustion products or gas: n/a  
Special protective equipment during fire-fighting: n/a  
Additional Informations: Glass filaments are not flammable, just the packaging. Polyurethane has low inflammable properties

## 6. Accidental Release Measures

Personal Precautions: Persons susceptible to skin irritation should avoid skin contact. Do not rub.  
Environmental Precautions: Product does not release environmentally harmful substances or materials. Handle as general industrial waste  
Method of cleaning up: Vacuum or sweep into containers designed for glass filaments waste. Avoid dust. No special proposals

## 7. Handling and Storage

### 7.1 Handling

Safe handling information: Increased formation of dust should be avoided. Installation of air exhaust

Fire and explosive protection: n/a

### 7.2 Storage

Technical Measures: n/a

Storage Information: The material should be stored in original packaging without direct sunlight

Storage Conditions: Recommended temperature: 10 - 35°C  
Recommended Humidity: 40 - 70%

## 8. Exposure Controls/Personal Protection

Work place exposure threshold and/or biological threshold: National and local dust limits have to be taken into consideration. EU: 6mg / m<sup>3</sup> // OSHA: 15mg / m<sup>3</sup>

Engineering Measures: No special recommendations for material use in normal conditions

Limitation and control of exposure: No special recommendation under normal conditions. Use adequate local exhaust ventilation to avoid unnecessary exposure.

Personal Protective Equipment:

- Respiratory: No special precautions under normal conditions. During dusty operations wear paper mask (P1 or P2)
- Hands: Wear gloves if needed
- Eye: No special precautions. Wear protective glasses especially during over head operations
- Skin and Body: No special precautions. Wear loose long sleeve shirt

## 9. Physical and Chemical Properties

Physical State: Solid  
Form: Continuous glass filaments, woven, reinforced by metal wire  
Color: White (Coating: different colours)

### Safety data:

Explosion hazard: none  
Steam pressure: none  
Density: at 20°C: 2,5-2,6 g/cm<sup>3</sup>  
Flow time: n/a  
Solubility: Sizes could be solubilised (up 100%) in most organic solvents  
pH-value: none  
Boiling point: none/softening point E-Glass 840°C/silica : 1250°C  
Flame point: >500°C (polyurethane)  
Decomposition of polyurethane : 200°C  
Inflammation point: none

## 10 Stability and Reactivity

Possible Hazardous Reactions: Glass filaments are a stable product causing no hazardous chemical reactions  
Hazardous Decomposition Products: Aside from water vapour, small quantities of CO and Nox at continuous combustion  
Thermal Decomposition: Size > 150°C