

T. Carson and Co

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Material Safety Data Sheet

Statement Of Hazardous Nature

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IDENTIFICATION

Product Name :Eli-Flex FR993 Polyurethane Resin
Other Names :
Manufacturer's Product Code :FR993
U.N Number :2489
Dangerous Goods Class and
Subsidiary Risk :Class 6
Hazchem Code : 3[T]
Use :Rubber castings and repair

Physical Description/Properties

Appearance :Resin - Cream / White, Hardener - Transparent
Boiling/Melting Point :See Precautions for use
Heat Resistance :120-125 °C
Flashpoint :Resin - >150 °C, Hardener - > 200 °C
Vapour Pressure :Low
Specific Gravity :@ 25 °C Mixed Resin 1,05-1,06 g/cm
Solubility in Water :Non Soluble

Other Properties :See Technical Data Sheet
Ingredients :Resin - Polyether/Polyester Polyols
- Inorganic Fillers
- Additives/Catalysts

: Hardener - Aromatic Di-Isocyanate (MDI)
- Polyol Pre-polymer



HEALTH HAZARD INFORMATION

Health Effects/First Aid

If Swallowed	:Do not induce vomiting. Contact a doctor immediately.
Contact with eyes	:Flush eyes with large amounts of water for at least 15 minutes
Contact with skin	:Wash skin with soap and water
If inhaled	:If overcome by vapours, remove to fresh air
Effects of over-exposure	:Resin - No harmful effects under normal handling and operating procedures :Hardener - Prolonged/repeated exposure may cause irritation of the skin, eyes, nose, throat and result in headaches. Do not expose hardener to heat or open flame.

PRECAUTIONS FOR USE

Due to the reactive nature of the FR993 Hardener, special care must be taken when handling the product. Ensure good ventilation as well as the use of gloves and eye protection.

Personal Protection	:Resin - Respiratory protection not required at ambient T° :Hardener - Fire fighters should wear self-contained breathing apparatus :Resin/Hardener - Ensure good Ventilation :Protective gloves recommended :Eye Protection recommended :Other protective equipment not needed
Flammability	:Resin - Flash point >150°C, Ignition point >450°C :Hardener - Flash Point 200°C, Ignition Point >450°C

SAFE HANDLING INFORMATION

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Storage and transport	:Store/transport under dry and cool conditions in tightly sealed containers/packs.Keep away from open flame
Spills and disposals	:Cover spillage with sand, clean with cotton waste, thereafter use industrial detergents and flush with water.
Fire/explosion hazard	:The product is of low flammability. It may burn. Auto-ignition is highly unlikely. In a combustion/fire situation, carbon monoxides, carbon dioxides, nitrous oxides and various hydrocarbon gases are emitted.

HANDLING PROPERTIES

Eli-Flex FR993 shows no dermatitic properties and has a very low irritation potential at room temperature. However, good industrial hygiene must be observed. Details can be found under *Precautions For Use*.

STORAGE STABILITY

Eli-Flex FR993 resin and catalyst is moisture sensitive. Material must be stored under dry and cool conditions in tightly sealed containers. Prolonged exposure to temperatures in excess of 40°C must be avoided.

NOTICE

The technical specification and/or our technical advice whether verbal, in writing or by trials is given in good faith and based on our test results obtained, but without warranty. It does not release the user from the obligation of testing the products supplied by us or any third party as to the suitability of the intended application. The application, use and processing of the products are beyond our control and Elite Chemical Industries (Pty) Ltd legal obligation in respect of any sale of it's products shall be determined by the terms of it's conditions of sale. PATENT APPLICATION NO. 86/4152.