

ELITE CHEMICAL INDUSTRIES (PTY) LTD

MATERIAL SAFETY DATA SHEET According to 91/155 EEC

Printing date: 10.01.2011

1. Identification of substance:

Product details:

Trade name: Eli-Cast FR/766 Comp A: Resin

Article number: FR/766

Application of the substance / the preparation

Electrical Insulating Resin

Initial product for chemical reactions

Polyurethane Resin

Manufacturer/Supplier:

Elite Chemical Industries (Pty) Ltd

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2. Composition / Data on components:

Chemical characterization:

	CAS NO:	PROPORTION	RISK PHRASES
Polyether / Polyesterpolyols Modifiers	- Non Hazardous	< 35 %	R20/22,36/37
Butadiene Polymer	69102-90-5	< 70 %	
Auxillary Products Pigments / Fillers	Non Hazardous	< 5 %	S16,25,26,28,29,36,37,44

3. Hazards identification

- Odour: Odourless
- Appearance: Liquid, black, not miscible with water
- Contact with eyes: Can cause redness and irritation
- Contact with skin: In cases of severe exposure, irritation may develop
- Inhalation: Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- Ingestion: Not regarded as a potential route of exposure. Harmful if swallowed (R22)

4. First aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Seek medical treatment in case of complaints. Remove patient to fresh air.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing: In case of persistent symptoms consult doctor.

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5. Fire fighting measures

Suitable extinguishing agents:

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Special hazards caused by the material, its products of combustion or flue gases:

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Protective equipment: No special measures required.

6. Accidental release measures

Person-related safety precautions: Not required

Measures for environmental protection:

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

Measures for cleaning / collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

7. Handling and storage

Handling

Information for safe handling: No special measures required.

Information about protection against explosions and fires: No special measures required.

Storage

Requirements to be met by storerooms and containers: No special requirements

Information about storage in one common storage facility: No requirements.

Further information about storage conditions: Keep container tightly sealed.

8. Exposure controls and personal protection

Additional information about design of technical systems: No further data; see item 7

Components with critical values that require monitoring at the workplace: Not required.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with skin.

Avoid contact with the eyes and skin.

Breathing equipment: Not required

Protection of hands: Protective gloves

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

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9. Physical and chemical properties:

General information

Form:	Liquid
Colour:	Black
Smell:	Nearly odourless

Change in condition

Boiling point/Boiling range: >250°C

Flash point: >200°C

Danger of explosion: Product is not explosive

Steam pressure at 20°C: 0.1 hPa

Density at 20°C: 0.9 – 1.0 g/cm³

Solubility in / Miscibility with water: Not miscible

Viscosity:

Dynamic at 25°C: 4000 – 4500 mPas

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known.

Dangerous products of decomposition: No dangerous decomposition products known

11. Toxicological information

Acute toxicity:

- LD50 (oral rat) >5000 mg/kg
- In cases of severe exposure, irritation may develop
- The ingestion of significant quantities may cause gastro-intestinal disturbances.

Primary irritant effects:

On the skin: Irritant for skin and mucous membranes.

On the eye: Irritant effect.

Sensitization: Sensitization possible by skin contact.

12. Ecological information

Ecotoxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R52/53)

Mobility: Not soluble in water

Persistence and Biodegradability: Not readily biodegradable

Bioaccumulation potential: No information available

Other adverse effects: No environmental problems are expected when the product is used/handled correctly. In its intended use, the product will not be released into the environment.

13. Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point.
- Disposal should be in accordance with local, state or national legislation.

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14. Transport information

- Not classified as hazardous for transport

15. Regulatory information



Risk Phrases:

- Harmful if swallowed (R22)

Safety Phrases:

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

16. Other information

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC). The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents.

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications – usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.