

ELITE CHEMICAL INDUSTRIES (PTY) LTD

MATERIAL SAFETY DATA SHEET

SECTION 1

MANUFACTURERS NAME	ELITE CHEMICAL INDUSTRIES (PTY) LTD
STREET ADDRESS	23 BARIUM STREET, ALRODE EXT 7 ALBERTON
EMERGENCY TELEPHONE NUMBER	+ 27 (11) 864 4620 FAX : + 27 (11) 864 3403
E-MAIL ADDRESS	elitechem@wol.co.za
WEBSITE ADDRESS	http://www.elitechemical.co.za
PRODUCT CLASS	POLYURETHANE INSULATING RESIN
TRADE NAME	ELI-CAST FR 453 RESIN

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENTS	PERCENT
Polyol Resin	
Inorganic Pigments / Fillers	
Additives	

SECTION 3 - PHYSICAL DATA

Liquid Polyurethane Resin	For detailed information refer to product
Medium viscosity	specification
Colour: Red Oxide	

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA
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FLASH POINT: ± 200°C	IGNITION POINT: 275°C
EXTINGUISHING MEDIA:	Water, CO ₂ , Foam, Powder Extinguisher, Sand

SECTION 5 - EMERGENCY & FIRST AID PROCEDURES
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If overcome by vapours, remove to fresh air. If not breathing, give artificial respiration. Wash skin with soap and water. Flush eyes with large amounts of water for at least 15 minutes. If ingested, do not induce vomiting, contact a doctor immediately.

This information is given without a warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a licence. It is offered solely for your consideration, investigation and verification. Before using any product, read its label.

SECTION 6 - HEALTH HAZARD DATA

Eli-Cast FR 453 Resin - Effects of over-exposure: No harmful effects are encountered under normal handling and operating procedures.

SECTION 7 - REACTIVITY DATA

MATERIALS TO AVOID Contamination with water, oxidating compounds, general chemicals

HAZARDOUS DECOMPOSITION PRODUCTS: Water, Carbon (Soot) Carbondioxide, Carbonmonoxide, nitrogen oxides

CONDITIONS TO AVOID: Store in tightly closed containers, keep away from moisture, heat and open flame.

SECTION 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILLAGE/LEAKAGE: Cover spillage with sand, sawdust, cotton waste. Thereafter use industrial detergents.

WASTE DISPOSAL PROCEDURES: Burn in suitable high temperature, low smoke producing incinerator. Bury on approved waste disposal tip

We make no guarantee or warranty of any kind that the use or disposal of this product is in compliance with all federal, state or local laws. It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statues.

SECTION 9 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Fire fighters should wear self

VENTILATION: Ensure good ventilation contained breathing apparatus

PROTECTIVE GLOVES: Use gloves EYE PROTECTION: Use goggles

OTHER PROTECTIVE EQUIPMENT: N/A

SECTION 10 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORING: As stated in Sections 7 & 9

OTHER PRECAUTIONS: N/A

NAME: JAW FRIEDRICH TITLE: MANAGING DIRECTOR

SIGNATURE: DATE: February 1998

Information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under our direct supervision, no representation is made that the information is accurate, reliable, complete or representative and the Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and/or situations involving its handling and use.

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WEBSITE ADDRESS	http://www.elitechemical.co.za
PRODUCT CLASS	POLYURETHANE INSULATING RESIN
TRADE NAME	ELI-CAST FR 453 HARDENER

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENTS	PERCENT
Aromatic Di-isocyanate (MDI)	

SECTION 3 - PHYSICAL DATA

Liquid Polyurethane Hardener, Low viscosity, low vapour pressure Colour: Brown	For detailed information refer to product specification
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SECTION 4 - FIRE AND EXPLOSION HAZARD DATA
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FLASH POINT:± 200°C	IGNITION POINT: 250°C
EXTINGUISHING MEDIA:	Dry Chemical Powder, Carbondioxide, Foam If water is used it should be in large quantities. Care must be taken as the reaction between water and hot isocyanate may be vigorous.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	N/A
SPECIAL FIRE FIGHTING PROCEDURES:	Fire fighters must wear full-faced positive pressure self contained breathing apparatus and full protective clothing.

SECTION 5 - EMERGENCY & FIRST AID PROCEDURES
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In all cases of personal exposure to hazardous concentration of TDI and MDI medical attention must be obtained immediately. If overcome by vapours, remove to fresh air. If not breathing, give artificial respiration. Wash skin with soap and water. Flush eyes with large amounts of water for at least 15 minutes. If resin/hardener is ingested, do not induce vomiting, contact a doctor immediately.

SECTION 5 - EMERGENCY & FIRST AID PROCEDURES

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SECTION 6 – HEALTH HAZARD DATA

Eli-Cast FR 453 Hardener - Effects of over-exposure: Prolonged / repeated exposure may cause irritation of the skin, eyes, nose, throat and headaches.

SECTION 7 - REACTIVITY DATA

MATERIALS TO AVOID Contamination with water, chemicals, oxidating chemicals, oxidating compounds

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, nitrogen oxide, hydrogen cyanide,

CONDITIONS TO AVOID: Store in tightly closed containers, keep away from moisture, heat and open flame.

SECTION 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILLAGE/LEAKAGE: Cover spillage with sand, sawdust, cotton waste, Collect in open top containers.

WASTE DISPOSAL PROCEDURES: a) Large quantities by incineration
 b) Small quantities by reaction with polyol, or flush with 90 % water, 8 % ammonia and 2 % liquid detergent

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SECTION 9 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: N/A **VENTILATION:** Ensure good ventilation at ambient temperature

PROTECTIVE GLOVES: Use gloves **EYE PROTECTION:** Use goggles

OTHER PROTECTIVE EQUIPMENT: N/A

SECTION 10 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORING: Store under dry and cool conditions

OTHER PRECAUTIONS: N/A

NAME: JAW FRIEDRICH **TITLE:** MANAGING DIRECTOR

SIGNATURE: **DATE:** February 1998

SECTION 10 - SPECIAL PRECAUTIONS

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