

Eli-Cast FR971 - RESIN

Revision Date: 15.04.2023

Revision: 9

Supersedes Date: 25.04.2016

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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name: Eli-Fil FR308 Epoxy Putty (Component A – Resin)

Synonym: Not available Trade Name: Eli-Fil FR308

(Component A - Resin)

Material Uses: Putty

Manufacturer: Eli-Chem Resins U.K Ltd, Unit 212 Dunsfold Park, Cranleigh, Surrey, GU6 8GA, United Kingdom

Tel: +44 1483 26 66 36 www.elichem.co.uk

Section 2. Composition, Information on Ingredients

Substance/Preparation: Preparation

Ingredient Name	CAS	%	EC	EU/SABS 0265
Reaction product: bisphenol A-(epichlorhydrin)	Number 25068-38-6	20 – 30	Number 500-033-5	Classification Xi; R36/38 R43
Calcium Carbonate Magnesium Silicate	n/a	>70	n/a	N; R51/53
See Section 16 for the full text of the R Phrases declared above				

^{*} Occupational Exposure Limit(s), if available, are listed in section 8

Section 3. Hazardous Identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Xi; R36/38

R43

N; R51/53

Human health hazards: Irritating to eyes and skin.

May cause sensitisation by skin contact.

Environmental Hazards: Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

See Section 11 for more detailed information on health effects and symptoms.

Section 4. First Aid Measures

Eye Contact: In cases of contact, immediately flush eyes with plenty of water fo at least 15 minutes. Get medical attention if

irritation occurs.

Skin Contact: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing

and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if

symptoms appear.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Get medical attention if symptoms persist.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an

unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Notes to Physician: No specific treatment, treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

Section 5. Fire Fighting Measures

Flammability of the Product: May be combustible at high temperatures

Auto-ignition Temperature: Not available



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Flash Points: > 200°C
Flammable Limits: Not available

Products of Combustion: These products are carbon oxides (CO, CO₂.....).

Fire Hazards in Presence

of Various Substances: Slightly flammable to flammable in presence of open flame, sparks and static discharge, of heat.

Explosion Hazards in Presence of Various

Substances: Non identified

Fire Fighting Media and

In case of fire, use water spray (fog), foam, dry chemical, or CO₂.

Special protective

Equipment for fire-fighters: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full

turnout gear.

Special Remarks on Fire

Hazards:

No additional remark.

Special Remarks on Explosion Hazards:

No additional remark.

Section6. Accidental Release Measures

Personal precautions: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective

equipment (Section 8). Follow all fire fighting procedures (Section 5).

Environmental Precautions

and Clean-up Methods: Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste

Disposal Information.

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material or otherwise contain material to ensure

runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

Section 7. Handling and Storage

Handling: Wash thoroughly after handling. Use suitable protective equipment (Section 8). **Storage**: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended: Use original container.

Section 8. Exposure Controls, Personal Protection

Exposure Controls

Occupational exposure

Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below

their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to

the work-station location.

Respiratory protection: A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator

when ventilation is inadequate.

Hand protection: Rubber gloves. Neoprene gloves.

Eye protection: Safety glasses. Goggles, face shield, or othe full-face protection if potential exists for direct exposure to

aerosols or splashes.

Skin protection: Additional body garments should be used based upon the task being performed (e.g. sleevelets, apron.

gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove

potentially contaminated clothing.

Personal protective Equipment (Pictograms):







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Occupational exposure limits:

Ingredient Name: Occupational Exposure Limits
Calcium Carbonate OSHA permissible exposure limit (PEL)

15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts

ACGIH Threshold limit value (TVL)

10mg/m³ total dust containing no asbestos and < 1% crystalline silica for particulates not otherwise classified

Magnesium Silicate OSHA permissible exposure limit (PEL)

20 MPPCF for talc containing no asbestos ACGIH Threshold limit value (TVL)

2 mg/m³ (TWA) respirable dust for talc containing no asbestos

Engineering control measures: A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal protection – respiratory: If the exposure limit is exceeded a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respiratory supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

Personal protection - hands: Gloves

Personal protection - eye: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Personal protection - skin: Lab coat, apron or coveralls

Other protection: None

Section 9. Physical and Chemical Properties

Physical State and

Appearance: Putty

Colour: White or Black Odour: Not available Not available Taste: **Molecular Weight:** Not applicable Molecular Formula: Not applicable Not applicable pH: Boiling/Condensation Point: Not available **Melting/Freezing Point:** Not available **Critical Temperature:** Not available Specific Gravity: $2.0 - 2.2 \text{ g/cm}^3$ Vapour Pressure: Not available Vapour Density: Not available Volatility: Not available Odour Threshold: Not available **Evaporation Rate:** Not available VOC: Not available Viscosity: Paste

 $\textbf{LogK}_{ow} \textbf{:} \hspace{1cm} \textbf{The product is insoluble in water and octanol.}$

Ionicity (in Water): Not available

Dispersion Properties: Is not dispersed in cold water, hot water.

Solubility: Insoluble in cold water, hot water, methanol, diethyl ether, n-octanol.

Physical Chemical

Comments: No additional remark.



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Section 10. Stability and Reactivity

The product is stable Stability and Reactivity: Conditions of Instability: None identified.

Incompatibility with Various

Substances: Reactive with acids.

Hazardous Decomposition

Products: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO_{2...})

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

Potential Acute Health Effects

Inhalation: No specific hazard

Ingestion: Ingestion may cause gastrointestinal irritation and diarrhoea. Skin contact: Irritating to skin. May cause sensitisation by skin contact.

Eye contact: Irritating to eyes.

Acute toxicity

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	Species
Reaction product: bisphenol	LD50	11400 mg/kg	Oral	Rat
A-(epichlorhydrin)	LD50	13600 mg/kg	Oral	Rat
, ,	LD50	>500 mg/kg	Oral	Mouse
	LD50	>1200 mg/kg	Dermal	Rat
	LD50	>1270 mg/kg	Dermal	Mouse
Calcium Carbonate	No data	a availahla		

Calcium Carbonate Magnesium Silicate No data available

Potential Chronic Health Effects

Ingredient Name Carcinogenic **Mutagenic Effects** Developmental Impairs fertility **Effects** toxicity

No evidence of risk in humans

Over-exposure signs/symptoms

Target Organs: Contains material, which causes damage to the following organs: cardiovascular system, skin, eye, lens or

cornea.

Other adverse effects: None identified.

Section 12. Ecological Information

Ecotoxicity Data

Ingredient Name Species Period Result Titanium dioxide Daphnia magna (EC50) >1000 mg/l 48 hour(s)

BOD and COD: Not available. Biodegradable/OECD: Not available. Mobility: Not available.

Products of Degradation: These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO_{2...}).

Toxicity of the Products

of Biodegradation: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The products of

biodegradation are less toxic than the original product.

Special Remarks on the

Products of Biodegradation: Not expected to bio-accumulate.



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Section 13. Disposal Considerations

Waste Disposal: Incinerate in a licensed high temperature hazardous waste incinerator. Dispose of according to all federal,

state and local applicable regulations.

Waste Stream: Not applicable. Waste Classification: Not applicable.

European Waste Catalogue

(EWC): Not applicable. Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
ADR/RID/SABS 0228 Class	Not regulated					
IMDG Class	Not regulated					
IATA-DGR Class	Not regulated					

Section 15. Regulatory Information

EU / SABS 0265 Classification

Hazard symbol(s):



rritant

Risk phrases: R36/38- Irritating to eyes and skin.

R43- May cause sensitisation by skin contact.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S24- Avoid contact with skin.

S29- Do not empty into drains S37- Wear suitable gloves.

S46- If swallowed, seek medical advice immediately and show this container or label.

Contains: Reaction product: bisphenol A-(epichlorhydrin) 500-033-5

Product Use: Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC

including amended and the intended use.

- Industrial applications.

Section 16. Other information

Full text of R phrases referred to in Section 2

and 3: R36- Irritating to eyes

R36/37/38- Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R43- May cause sensitisation by skin contact.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of

classifications referred

to in Sections 2 and 3: Xi- Irritant

N- Dangerous for the environment.

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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Section 1. Chemical Product And Company Identification

Common Name: Eli-Fil FR308 Epoxy Putty (Component B – Hardener)

Synonym: Not available Trade Name: Eli-Fil FR308

(Component B – Hardener)

Material Uses: Putty

Manufacturer: Eli-Chem Resins U.K Ltd, Unit 212 Dunsfold Park, Cranleigh, Surrey, GU6 8GA, United Kingdom

Tel: +44 1483 26 66 36 www.elichem.co.uk

Section 2. Composition, Information on Ingredients

Substance/Preparation: Preparation

Ingredient Name	CAS Number	%	EC Number	EU/SABS 0265 Classification
Calcium Carbonate Magnesium Silicate Formulated Polyaminoamide	N/a N/a 68910-90-7	<50 <40 >20	N/a N/a	Not regulated Not regulated R20/22 R42/43 S16/24/25
See Section 16 for the full text of the R Phrases declared above				

^{*} Occupational Exposure Limit(s), if available, are listed in section 8

Section 3. Hazardous Identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Xi; R36/38

R43

Human health hazards: Irritating to eyes and skin.

May cause sensitisation by skin contact.

See Section 11 for more detailed information on health effects and symptoms.

Section 4. First Aid Measures

Eye Contact: In cases of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if

irritation occurs.

Skin Contact: Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse.

Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an

unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Notes to Physician: No specific treatment, treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

Section 5. Fire Fighting Measures

Flammability of the Product: May be combustible at high temperatures

Auto-ignition Temperature: The lowest known value is 336.9°C (638.4°F) (Triethylenetetramine).

Flash Points: The lowest known value is Closed cup: 98.9°C (210°F). Open cup: 97.9°C (208°F).

(Cleveland). (Diethylenetriamine).

Flammable Limits: Not available



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Products of Combustion: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).

Fire Hazards in Presence

of Various Substances: Slightly flammable to flammable in presence of open flames, sparks and static discharge, or heat.

Explosion Hazards in Presence of Various

Substances: None identified

Fire Fighting Media and

Instructions: In case of fire, use water spray (fog), foam, dry chemical, or CO₂.

Special protective

Equipment for fire-fighters: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full

turnout gear.

Special Remarks on Fire

Hazards: Special Remarks on When heated to decomposition, it emits toxics fumes. (Diethylenetriamine)

Explosion Hazards: No additional remark.

Section 6. Accidental Release Measures

Personal precautions: Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

Environmental Precautions

and Clean-up Methods: Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste

Disposal Information.

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills like spilled material or otherwise contain material to ensure runoff does not reach a

waterway. Place spilled material in an appropriate container for disposal.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

Section 7. Handling and Storage

Handling: Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use suitable

protective equipment (Section 8).

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended: Use original container.

Section 8. Exposure Controls, Personal Protection

Exposure Controls

Occupational exposure

Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below

their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to

the work-station location.

Respiratory protection: A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator

when ventilation is inadequate.

Hand protection: Rubber gloves. Neoprene gloves.

Eye protection: Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to

aerosols or splashes.

Skin protection: Additional body garments should be used based upon the task being performed (e.g. sleevelets, apron,

gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove

potentially contaminated clothing.



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Section 8. Exposure Controls, Personal Protection (Continue/...)

Personal protective Equipment (Pictograms):





Occupational exposure limits:

Ingredient Name: Occupational Exposure Limits
Calcium Carbonate OSHA permissible exposure limit (PEL)

15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts

ACGIH Threshold limit value (TVL)

10mg/m³ total dust containing no asbestos and < 1% crystalline silica for particulates not otherwise classified

Magnesium Silicate OSHA permissible exposure limit (PEL)

20 MPPCF for talc containing no asbestos

ACGIH Threshold limit value (TVL)

2 mg/m³ (TWA) respirable dust for talc containing no asbestos

Engineering control measures: A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal protection – respiratory: If the exposure limit is exceeded a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respiratory supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

Personal protection - hands: Gloves

Personal protection – eye: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Personal protection – skin: Lab coat, apron or coveralls

Other protection: None

Triethylenetetramine AIHA WHEEL (United States, 2003). Skin Notes:

TWA: 1 ppm 8 hour(s)

Section 9. Physical and Chemical Properties

Physical State and

Appearance: Putty
Colour: Beige
Odour: Not available
Taste: Not available
Molecular Weight: Not applicable
Molecular Formula: Not applicable

pH: Basic

Boiling/Condensation Point: The lowest known value is 207.05°C (404.7°F) (Diethylenetriamine). **Melting/Freezing Point**: May start to solidify at 12°C (53.6°F) based on data for: Triethylenetetramine.

Section 9. Physical and Chemical Properties (Continue /...)

Critical Temperature: The lowest known value is 459.9°C (859.8°F) (Triethylenetetramine).

Specific Gravity: 2.0 – 2.2 g/cm³



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Vapour Pressure: The highest known value is 0.03 kPa (0.2 mmHg) (at 20°C) (Diethylenetriamine).

Vapour Density: The highest known value is 5.04 (Air = 1) (Triethylenetetramine).

Volatility: Not available Odour Threshold: Not available

Evaporation Rate: 0.005 (Diethylenetriamine) compared to Butyl acetate.

VOC: Not available Viscosity: Not available

LogK_{ow}: The product is partly soluble in water and octanol.

Ionicity (in Water): Not available

Dispersion Properties: Is not dispersed in cold water, hot water.

Solubility: Partly soluble in cold water, hot water, methanol, diethyl ether, n-octanol.

Physical Chemical

Comments: No additional remark.

Section 10. Stability and Reactivity

Stability and Reactivity: The product is stable **Conditions of Instability**: None identified.

Incompatibility with Various

Substances: Reactive with acids.

Slightly reactive to reactive with OXIDIZING AGENTS.

Hazardous Decomposition

Products: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO_{2...})

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

Potential Acute Health Effects

Inhalation: Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing,

choking, or shortness of breath.

Ingestion:Ingestion may cause gastrointestinal irritation and diarrhoea.Skin contact:Irritating to skin. May cause sensitisation by skin contact.

Eye contact: Irritating to eyes.

Acute toxicity

Ingredient Name	<u>Test</u>	<u>Result</u>	Route	Species
Diethylenetriamine	LD50	1080 mg/kg	Oral	Rat
·	LD50	1090 mg/kg	Dermal	Rabbit
Triethylenetetramine	LD50	2500 mg/kg	Oral	Rat
•	LD50	5500 mg/kg	Oral	Rabbit
	LD50	1600 mg/kg	Oral	Mouse
	LD50	805 mg/kg	Dermal	Rabbit
Calcium Carbonate	No data	available		

Calcium Carbonate No data available Magnesium Silicate No data available

Potential Chronic Health Effects

Ingredient Name	<u>Carcinogenic</u>	Mutagenic Effects	<u>Developmental</u>	Impairs fertility
_	Effects		toxicity	-
Triethylenetetramine	No data	Some evidence	No data	n/a

Over-exposure signs/symptoms

Target Organs: Contains material, which causes damage to the following organs: kidneys, lungs, liver, gastrointestinal tract,

upper respiratory tract, skin, eye, lens or cornea.

Other adverse effects: None identified.



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Section 12. Ecological Information

Ecotoxicity Data

Ingredient Name Species Period Result

Triethylenetetramine No data available

BOD and COD: Not available.
Biodegradable/OECD: Not available.
Mobility: Not available.

Products of Degradation: These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂...).

Toxicity of the Products

of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the

Products of Biodegradation: Not available

Section 13. Disposal Considerations

Waste Disposal: Incinerate in a licensed high temperature hazardous waste incinerator. Dispose of according to all federal,

state and local applicable regulations.

Waste Stream: Not applicable. Waste Classification: Not applicable.

European Waste Catalogue

(EWC): Not applicable. Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
ADR/RID/SABS 0228 Class	Not regulated					
IMDG Class	Not regulated					
IATA-DGR Class	Not regulated					

Section 15. Regulatory Information

EU / SABS 0265 Classification

Hazard symbol(s):



rritant

Risk phrases: R36/38- Irritating to eyes and skin.

R43- May cause sensitisation by skin contact.

Safety phrases: S24- Avoid contact with skin.

S37- Wear suitable gloves.

S46- If swallowed, seek medical advice immediately and show this container or label.

Contains: Triethylenetetramine 203-950-6

Product Use: Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC

including amended and the intended use.

- Industrial applications.



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Section 16. Other information

Full text of R phrases referred to in Section 2 and 3:

R21- Harmful in contact with skin.

R21/22- harmful in contact with skin and if swallowed.

R36- Irritating to eyes

R36/37/38- Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R43- May cause sensitisation by skin contact.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of

classifications referred

to in Sections 2 and 3: Xi- Irritant

Notice to Reader

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