

MATERIAL SAFETY DATA SHEET

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1 PRODUCT NAME: Surefoot – Resin

2 CHEMICAL COMPOSITION:

Hazardous component	Wt%	Symbol	R Phrases
EC:5000325 Bisphenol A/F CAS:40216-08-8 Epoxy Resin	>50%	Xi N	36/38, 43, 51/53
EC:2402604 Hexanediol CAS:16096-31-4 Diglycidyl Ether	<50%	Xi	36/38, 43, 52/53

3 **HAZARDS IDENTIFICATION:** Irritating to eyes and skin. May cause sensitisation by skin contact. Persons with a history of skin sensitisation problems should seek medical advice before use. Environmentally hazardous.

4 FIRST AID MEASURES:

- 4.1 General Advice: Remove contaminated clothing.
- 4.2 Inhalation: Remove to fresh air.
- 4.3 Eye Contact: Rinse with copious amounts of water and seek immediate attention.
- 4.4 Skin Contact: Wash with soap and water. Do not use solvents.
- 4.5 Ingestion: Rinse out mouth with water. Do not induce vomiting. Give water to drink and seek immediate medical attention.

5 FIRE PRECAUTIONS:

- 5.1 Extinguishing Media: Carbon dioxide, foam, dry chemical or water spray.
- 5.2 Extinguishing Media NOT to be used: -
- 5.3 Product Combustion Hazards: Oxides of carbon.
- 5.4 Special Protective Equipment for Firefighters: -

6 SPILLAGE:

- 6.1 Personal Precautions: Avoid contact with skin, eyes and clothing.
- 6.2 Environmental Precautions: Avoid soil contamination. Do not release into drains or open water courses.
- 6.3 Removal of Spillage: Absorb in earth or sand.
- 6.4 Further Advice: -

7 HANDLING & STORAGE:

- 7.1 Safe Handling: Do not eat, drink or smoke. Ensure good ventilation.
- 7.2 Safe Storage: Store unopened in dry conditions. Avoid extremes of temperature.

8 PERSONAL PROTECTION:

- 8.1 Respiratory Protection: Wear vapour mask in enclosed areas.
- 8.2 Hand Protection: Wear suitable gloves. Seek advice from glove suppliers and follow their instructions.
- 8.3 Eye Protection: Safety glasses.
- 8.4 Skin Protection: Overalls, industrial footwear.

SUREFOOT RESIN

9 PHYSICAL & CHEMICAL PROPERTIES:

9.1 Appearance: Straw coloured liquid
9.2 Odour: -
9.3 Colour: -
9.4 Boiling Point/Range: >200 C
Flash Point: >100 C
Relative Density: 1.16 g / cubic centimetre
Melting Point/Range: -
Flammability(solid, gas): -
Explosive Limits: -
Vapour Pressure: <1 m bar
Water Solubility: Insoluble
Other Data: -
Solvent Content: 0%

10 STABILITY & REACTIVITY:

10.1 Conditions to avoid: -
10.2 Materials to avoid: Strong acids, bases and oxidising agents.
10.3 Hazardous Decomposition Products: Oxides of carbon and other toxic vapours/gases.

11 TOXICOLOGICAL INFORMATION:

There is no data available on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 3 and 15 for details of the resulting hazard classification.

12 ECOLOGICAL INFORMATION:

Prevent contamination of soil, drains or surface water. This preparation has been assessed following the conventional method in CHIP and is classified for ecological effects accordingly. See Sections 2 and 15 for details.

13 SAFE DISPOSAL:

13.1 Product: Incineration or landfill according to local Byelaws.
13.2 Container: Incineration or landfill according to local Byelaws.

14 TRANSPORT INFORMATION:

ADR: UN 3082 Environmentally hazardous substance 9 III liquid n.o.s. (liquid Epoxy resin)
The resin component of a standard 5 litre combined pack (resin and curing agent) is small enough to enable the product to be classed as "Limited Quantities" under ADR.
IMDG: UN 3082 Environmentally hazardous substance 9 III liquid n.o.s. (liquid Epoxy resin)

15 REGULATORY INFORMATION: IRRITANT Xi

Dangerous for the environment N

R phrases

36/38: Irritating to eyes and skin.
43: May cause sensitisation by skin contact.
51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

S phrases

2: Keep out of reach of children.
28: After contact with skin, wash immediately with plenty of soap and water.
37/39: Wear suitable gloves and eye / face protection.
61: Avoid release to the environment. Refer to special instructions/Safety data sheets.
Other Data: Contains epoxy constituents. See information supplied by the manufacturer.

16 OTHER INFORMATION: - -

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provided guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. See also MSD sheet for Safety Coat Curing Agent.

1 PRODUCT NAME: Surefoot – Curing Agent

2 CHEMICAL COMPOSITION:

Curing Agent - Water based polyamino-amide

CAS No.	Wt%	Symbol	R Phrases
Modified Epoxy Amine Adduct -	<20%	Xn	22, 41
containing 1477-550	<0.1%		
111-40-0	<0.2%		
112-24-3	<0.1%		
112-24-4			

3 **HAZARDS IDENTIFICATION:** Risk of serious damage to eyes. May cause sensitisation by skin contact. Harmful if swallowed.

4 FIRST AID MEASURES:

- 4.1 General Advice: Remove contaminated clothing.
- 4.2 Inhalation: Remove to fresh air.
- 4.3 Eye Contact: Rinse with water for fifteen minutes. Seek medical attention immediately.
- 4.4 Skin Contact: Wash with soap and water. Do not use solvents.
- 4.5 Ingestion: Rinse out mouth with water. Do not induce vomiting. Give water to drink. Seek medical attention.

5 FIRE PRECAUTIONS:

- 5.1 Extinguishing Media: Not flammable.
- 5.2 Extinguishing Media NOT to be used: -
- 5.3 Product Combustion Hazards: Oxides of carbon and nitrogen. Ammonia.
- 5.4 Special Protective Equipment for Firefighters: -

6 SPILLAGE:

- 6.1 Personal Precautions: Avoid contact with skin, eyes and clothing.
- 6.2 Environmental Precautions: Avoid soil contamination. Do not release into drains or open water courses.
- 6.3 Removal of Spillage: Absorb in earth or sand.
- 6.4 Further Advice: -

7 HANDLING & STORAGE:

- 7.1 Safe Handling: Do not eat, drink or smoke. Ensure good ventilation.
- 7.2 Safe Storage: Store in a dry conditions, unopened. Avoid extremes of temperature.

8 PERSONAL PROTECTION:

- 8.1 Respiratory Protection: Wear vapour mask in enclosed areas.
- 8.2 Hand Protection: Wear suitable gloves.
- 8.3 Eye Protection: Safety glasses recommended.
- 8.4 Skin Protection: Overalls, industrial footwear.

9 PHYSICAL & CHEMICAL PROPERTIES:

- 9.1 Appearance: Coloured liquid
- 9.2 Odour: Ammoniacal
- 9.3 Colour: -
- 9.4 Boiling Point/Range: >100 C
- Flash Point: -
- Auto Ignition Temp: -
- Oxidising Properties: -
- Relative Density: 1.3 g / cm³
- Melting Point/Range: -
- Flammability(solid, gas): -
- Explosive Limits: -
- Vapour Pressure: <1 mbar
- Water Solubility: Soluble
- Other Data: -
- Solvent Content: 0%

SUREFOOT CURING AGENT

10 STABILITY & REACTIVITY:

10.1 Conditions to avoid: -

10.2 Materials to avoid: Strong acids, bases and oxidising agents.

10.3 Hazardous Decomposition Products: Oxides of carbon and other toxic vapours / gases.

11 TOXICOLOGICAL INFORMATION:

11.1 Toxicity: LD50 Oral: >511 mg / kg (rats).

LD50 Skin: >2000 mg / kg (rabbits).

Skin Irritation: Can cause irritation.

Sensitisation: May cause sensitisation.

Inhalation: -

Recommended Exposure Limit: Ocular irritation tests with the concentrated Epoxy Amine Adduct alone has caused deaths in both rats and rabbits. Therefore the product must be considered a severe eye irritant in humans.

12 ECOLOGICAL INFORMATION:

Prevent contamination of soil, drains or surface water.

13 SAFE DISPOSAL:

13.1 Product: Incineration or landfill with respect to local Byelaws.

13.2 Container: Incineration or landfill with respect to local Byelaws.

14 **TRANSPORT INFORMATION:** Not classified as hazardous for transport.

Hazard Class: UN No:

Packing Group: Flash Point:

ADR Class: Item:

Technical Name:

15 REGULATORY INFORMATION: IRRITANT Xi

R phrases

22: Harmful if swallowed.

41: Risk of serious damage to eyes.

S phrases

25: Avoid contact with eyes.

26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28: After contact with skin, wash immediately with plenty of soap and water.

36/37/39: Wear suitable clothing, gloves and eye / face protection.

45: In case of accident, or if you feel unwell, seek medical advice immediately (show the label where possible).

Other Data: -

16 OTHER INFORMATION: -