

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Code	FZNRA
Product Name	Friazinc R Part A
Product Description	Two component zinc rich anti-corrosive primer for steel surfaces based on epoxy resin.
Manufacturer/Supplier	Sika Limited Watchmead Welwyn Garden City Hertfordshire. AL7 1BQ tel. 01707 394444 Fax. 01707 329129

2. COMPOSITION/INFORMATION ON THE COMPONENTS**Preparation - Hazardous ingredients (Europe)**

Component	CAS/EINECS	Concentration	Classification	Risk Phrases
Zinc powder - zinc dust (stabilised)	1314-13-2	50.00% - 100.00%	N	R50/53
Epoxy Resin: Type A (No. Av. Mol wt 700-1100)	2506-38-6	2.50% - 10.00%	Xi	R36/38, R43
1 methoxy-2-propanol	107-98-2	2.50% - 10.00%	-	R10
Xylene	1330-20-7	2.50% - 10.00%	Xn	R10, R20/21, R38
Ethyl benzene	100-41-4	1.00% - 2.50%	F, Xn	R11, R20
Solvent Naptha (Petroleum),Light Aromatic.	64742-95-6	1.00% - 2.50%	Xn, N	R10, R37, R51/53, R65, R66, R67

3. HAZARD IDENTIFICATION

Main Hazards	Flammable Irritating to eyes and skin. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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4. FIRST AID MEASURES

Eye Contact	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.
Skin Contact	Wash skin thoroughly with soap and water. Contaminated clothing should be washed or dry-cleaned before re-use.
Ingestion	Do not induce vomiting. Obtain medical attention.
Inhalation	Remove from exposure. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical or carbon dioxide. Dry sand may be used on small fires.
Extinguishing Media - Not suitable	Do not use water jet.
Special Hazards of Product	Combustion will produce smoke, carbon dioxide and carbon monoxide.
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Wear appropriate protective clothing. Eliminate all sources of ignition.

Environmental Precautions and Clean-up

Ventilate area to dispel any residual vapours.

Methods

Prevent the material from entering drains or water courses.

Spillages

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE**Handling**

Exposure by inhalation or skin contact should be minimised by good Industrial Hygiene practices.

Use in well ventilated area. Avoid inhaling vapour.

Storage

Avoid contact with eyes, skin and clothing.

Storage area should be: cool. dry. well ventilated. out of direct sunlight.

Store away from sources of heat or ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits - GB**

1 methoxy-2-propanol

UK EH40: WEL 100ppm (375mg/m³) 8h TWA.

Xylene

UK EH40: WEL 150ppm (560mg/m³) 15min STEL

UK EH40: WEL 50ppm (220mg/m³) 8h TWA.

Ethyl benzene

UK EH40: WEL 100ppm (441mg/m³) 15min STEL

UK EH40: WEL 100ppm (441mg/M³) 8 hr TWA

UK EH40: WEL 125ppm (552mg/M³) 15 min STEL

Engineering Control Measures

Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

Respiratory Protection

Adequate ventilation should be provided to maintain solvent concentrations in the workplace below exposure limits.

Respiratory protection if there is a risk of exposure to high vapour concentrations.

Hand Protection

Wear suitable impervious gloves.

Eye Protection

Chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical State**

Viscous liquid.

Color

Grey.

Odor

Aromatic.

Flash Point °C

26

Solubility - Water

Immiscible.

Density (kg/m³)

Approx. 3300 at 20 °C.

Viscosity (at 20°C)

Viscous liquid at ambient temperatures.

**10. STABILITY AND REACTIVITY**

<i>Stability</i>	Stable under normal conditions.
<i>Conditions to avoid</i>	Contains volatile solvent. Sources of ignition. High temperatures.
<i>Hazardous Decomposition Products</i>	Combustion will generate: oxides of carbon. acrid smoke and irritating fumes.

11. TOXICOLOGICAL INFORMATION

<i>Acute toxicity</i>	Low order of acute toxicity. Excessive exposure may produce anaesthetic or narcotic effects.
<i>Eye irritation</i>	Liquid and vapour can cause irritation on contact and at high concentrations.
<i>Skin irritation</i>	Frequent skin contact may cause irritation and defatting due to the solvent content. The possibility of allergic sensitisation should be considered

12. ECOLOGICAL INFORMATION

<i>Mobility</i>	The product is insoluble in water.
<i>Persistence/degradability</i>	Partially biodegradable
<i>Ecotoxicity</i>	This material is harmful to aquatic organisms.

13. DISPOSAL

<i>Product Disposal</i>	Hazardous waste. Arrange for disposal via a licensed waste contractor.
<i>Container Disposal</i>	Dispose of containers with care. Empty containers may contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.

14. TRANSPORT INFORMATION

<i>UN : UN number</i>	1263
<i>UN : Proper shipping name</i>	Paint
<i>UN : Class</i>	3.3
<i>UN : Packing Group</i>	3
<i>ADR/RID : Proper shipping name</i>	Paints - flash point between 21°C and 55°C.
<i>ADR/RID : Class</i>	Transport according to chapter 2.2.3.1.5 ADR
<i>ADR/RID : Item Number</i>	31(c)
<i>IMDG : Proper shipping name</i>	Paint.
<i>IMDG : Packing Group</i>	3
<i>IMDG : Class</i>	3.3
<i>IATA : Proper shipping name</i>	Paint.
<i>IATA : Packing Group</i>	3
<i>IATA : Class</i>	3

**15. REGULATORY INFORMATION****Label Requirements**

Irritant, Dangerous for the environment

**Risk Phrases**

Flammable.
Irritating to eyes and skin.
May cause sensitization by skin contact.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

Do not breathe gas/fumes/vapor/spray
Avoid contact with skin.
Wear suitable gloves.
In case of insufficient ventilation, wear suitable respiratory equipment.
Use only in well-ventilated areas.

Contains epoxy constituents. See information supplied by the manufacturer.

Contains

reaction product: bisphenol A-(epichlorhydrin);
epoxy resin (number average molecular weight 700-1100)

16. OTHER INFORMATION**First Issue Date**

04.10.1995

Revisions Highlighted

Composition/Information on the Components
Hazards Identification
Exposure controls/personal protection
Disposal.
Regulatory Information

Uses and Restrictions

Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.

UK Legislation

Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.
SI 2002/2677: The Control of Substances Hazardous to Health Regulations
SI 2002/1689: Chemicals (Hazard Information and Packaging) Regulations
SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.

UK Guidance Publications

SI No. 972/1996: The Special Waste Regulations 1996
General Approved Code of Practice to COSHH Regulations, HSE.
EH40, Occupational Exposure Limits, HSE. Revised Annually.
HS(G) 53, Respiratory Protective Equipment - a Practical Guide for Users, HSE.

Footnote

The information contained in this SDS corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the Technical Data Sheet prior to use.

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Code FZNRB
Product Name Friazinc R Part B
Product Description Two component zinc rich anti-corrosive primer for steel surfaces based on epoxy resin.
Manufacturer/Supplier Sika Limited
Watchmead
Welwyn Garden City
Hertfordshire.
AL7 1BQ
tel. 01707 394444
Fax. 01707 329129

2. COMPOSITION/INFORMATION ON THE COMPONENTS**Preparation - Hazardous ingredients (Europe)**

Component	CAS/EINECS	Concentration	Classification	Risk Phrases
Polyaminoamide	68082-29-1	25.00% - 50.00%	Xi	R36/38, R43
Solvent Naptha (Petroleum),Light Aromatic.	64742-95-6	25.00% - 50.00%	Xn, N	R10, R37, R51/53, R65, R66, R67
1 methoxy-2-propanol	107-98-2	10.00% - 25.00%	-	R10
Xylene	1330-20-7	10.00% 25.00%	Xn	R10, R20/21, R38
Ethyl benzene	100-41-4	2.50% - 10.00%	F, Xn	R11, R20

3. HAZARD IDENTIFICATION

Main Hazards Flammable
Harmful by inhalation and in contact with skin.
Irritating to eyes, respiratory system and skin.
May cause sensitization by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Eye Contact Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open.
Obtain medical attention urgently.

Skin Contact Wash skin thoroughly with soap and water.
Obtain medical attention if blistering occurs or redness persists.
Contaminated clothing should be washed or dry-cleaned before re-use.

Ingestion Do not induce vomiting.
Obtain medical attention urgently.

Inhalation Remove from exposure.
In cases of possible respiratory irritation or if feeling unwell in cases of prolonged exposure, obtain medical attention.

**5. FIRE FIGHTING MEASURES**

<i>Extinguishing Media</i>	Use foam, dry chemical or carbon dioxide. Dry sand may be used on small fires.
<i>Extinguishing Media - Not suitable</i>	Do not use water jet.
<i>Special Hazards of Product</i>	Thermal decomposition or burning may release oxides of carbon, nitrogen and other toxic gases and vapours.
<i>Protective Equipment for Fire-Fighting</i>	Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

<i>Personal Precautions</i>	Wear appropriate protective clothing. Eliminate all sources of ignition.
<i>Environmental Precautions and Clean-up Methods</i>	Ventilate area to dispel any residual vapours. Try to prevent the material from entering drains or water courses.
<i>Spillages</i>	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

<i>Handling</i>	Exposure by inhalation or skin contact should be minimised by good Industrial Hygiene practices. Use in well ventilated area. Avoid inhaling vapour.
<i>Storage</i>	Avoid contact with eyes, skin and clothing. Storage area should be: cool. dry. well ventilated. out of direct sunlight. Store away from sources of heat or ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits - GB	
1 methoxy-2-propanol	UK EH40: OES 100ppm (375mg/m ³) 8h TWA.
Xylene	UK EH40: OES 150ppm (560mg/m ³) 15min STEL UK EH40: OES 50ppm (220mg/m ³) 8h TWA.
Ethyl benzene	UK EH40: OES 100ppm (441mg/m ³) 15min STEL UK EH40: OES 100ppm (441mg/m ³) 8h TWA. UK EH40: OES 125ppm (552mg/m ³) 15min STEL
<i>Engineering Control Measures</i>	Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
<i>Respiratory Protection</i>	Adequate ventilation should be provided to maintain solvent concentrations in the workplace below exposure limits. Respiratory protection if there is a risk of exposure to high vapour concentrations.
<i>Hand Protection</i>	Wear suitable impervious gloves.
<i>Eye Protection</i>	Chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Physical State</i>	Liquid.
<i>Color</i>	Yellow.
<i>Odor</i>	Ammoniacal.
<i>Flash Point °C</i>	Approx. 31
<i>Solubility - Water</i>	Partially soluble. Emulsifies.
<i>Density (kg/m³)</i>	Approx. 900 at 20 °C.



Viscosity (at 20°C)

Mobile liquid at ambient temperatures.

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to avoid

Contains volatile solvent.

Sources of ignition.

Hazardous Decomposition Products

Combustion will generate: oxides of carbon. oxides of nitrogen. acrid smoke and irritating fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Low order of acute toxicity.

Eye irritation

Excessive exposure may produce anaesthetic or narcotic effects.

Liquid and vapour can cause irritation on contact and at high concentrations.

Skin irritation

This material is corrosive to the eye.

Frequent or prolonged skin contact may cause some local short term skin irritation.

Harmful by absorption through the skin.

12. ECOLOGICAL INFORMATION

Mobility

A major part of the product will dissolve slowly in water.

Persistence/degradability

The product is expected to be not readily biodegradable.

Ecotoxicity

This material is harmful to aquatic organisms.

13. DISPOSAL

Product Disposal

Dispose of as Special Waste.

Container Disposal

Arrange for disposal via a licensed waste contractor.

Dispose of containers with care.

Empty containers may contain hazardous residues.

Empty packaging should be removed by a licensed waste contractor.

14. TRANSPORT INFORMATION

UN : UN number 1263

UN : Proper shipping name Paint

UN : Class 3

UN : Packing Group 3

ADR/RID : Proper shipping name Paints - flash point between 21°C and 55°C.

ADR/RID : Class 3

ADR/RID : Item Number 31c

ADR/RID : Hazard Identification Number 30

IMDG : Proper shipping name Paint.

IMDG : Packing Group 3

IMDG : Class 3.3

IMDG : Marine Pollutant P

IMDG : Ems Number 3-05

IATA : Proper shipping name Paint.

IATA : Packing Group 3



IATA : Class

3

15. REGULATORY INFORMATION**Label Requirements**

Harmful, Dangerous for the environment

**Risk Phrases**

Flammable.
Harmful by inhalation and in contact with skin.
Irritating to eyes, respiratory system and skin.
May cause sensitization by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

Avoid contact with skin.
Wear suitable protective clothing and gloves.
Use only in well-ventilated areas.

Contains

Polyaminoamide, Xylene

16. OTHER INFORMATION**First Issue Date**

04.10.1995

Revisions Highlighted

Main Hazards
Exposure Controls/Personal Protection
Regulatory information

Uses and Restrictions

Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.

UK Legislation

Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.
SI 1999/437: The Control of Substances Hazardous to Health Regulations
SI 2002/1689: Chemicals (Hazard Information and Packaging) Regulations, 2002.
SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.
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EH40, Occupational Exposure Limits, HSE. Revised Annually.
General Approved Code of Practice to COSHH Regulations, HSE.
HS(G) 53, Respiratory Protective Equipment - a Practical Guide for Users, HSE.

Footnote

Guide to Highly Flammable Liquids & LPG Regulations - H&SE.
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