



Multi-Component Safety Data Sheet

FS-EP-PRIMER

Solvent-Free, Low Viscosity Epoxy Primer

Part A (Resin) & Part B (Hardener)

This combined Safety Data Sheet presents the hazard, handling, and regulatory information for both components supplied together as the FS-EPP-2R kit (5 kg): Part A – Resin Component (3.30 kg) and Part B – Hardener Component (1.70 kg). Each section below is organised by the standard 16-point GHS format and presents the Part A data followed by the Part B data so that the two components can be compared side by side. The two components must not be regarded as a single substance until mixed in the specified ratio; always consult the individual product labels prior to use.

SECTION 1: IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Part A – Resin Component

Product Name	FS-EP-PRIMER Part A — Resin Component
Product Code	FS-EP-PRIMER
Sub-brand	FloorSafe™
Chemical Family	Epoxy resin (bisphenol A/epichlorohydrin type)
Product Use	Resin component of a two-component, solvent-free epoxy primer. Mixed with FS-EPP-2R Part B (Hardener) in the specified ratio to prepare porous and absorbent substrates prior to the application of FloorSafe™ epoxy and polyurethane flooring systems. For professional application only.
Pack Size	Supplied as a 5 kg kit (Part A: 3.30 kg + Part B: 1.70 kg). Part A (Resin) component only — 3.30 kg per kit.

Part B – Hardener Component

Product Name	FS-EP-PRIMER Part B — Hardener Component
Product Code	FS-EP-PRIMER
Sub-brand	FloorSafe™
Chemical Family	Amidoamine (polyamide / Manniche base curing agent)
Product Use	Hardener component of a two-component, solvent-free epoxy primer. Mixed with FS-EPP-2R Part A (Resin) in the specified ratio to cure the primer used to prepare porous and absorbent substrates prior to the application of FloorSafe™ epoxy and polyurethane flooring systems. For professional application only.

Pack Size	Supplied as a 5 kg kit (Part A: 3.30 kg + Part B: 1.70 kg). Part B (Hardener) component only — 1.70 kg per kit.
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Supplier Details (Both Components)

Supplier	BGSB Construction Products Ltd
Address	Mlolongo, Kenya
Telephone	+254 739 806502
Email	info@jengapro.com
Website	www.jengapro.com
Revision Date	July 2026 (both components)

SECTION 2: HAZARDS IDENTIFICATION

Part A – Resin Component

GHS Classification

Hazard Class	Classification
Skin irritation	Category 2 — H315: Causes skin irritation
Eye irritation	Category 2A — H319: Causes serious eye irritation
Skin sensitisation	Category 1 — H317: May cause an allergic skin reaction
Hazardous to the aquatic environment (long-term)	Category 2 — H411: Toxic to aquatic life with long-lasting effects

Signal Word: **WARNING**

- GHS Pictogram 1 — GHS07 (Exclamation Mark): Skin/eye irritation and skin sensitisation
- GHS Pictogram 2 — GHS09 (Environment): Hazardous to the aquatic environment

Hazard Statements:

- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H319 — Causes serious eye irritation
- H411 — Toxic to aquatic life with long-lasting effects

Precautionary Statements:

- P261 — Avoid breathing dust/fume/gas/mist/vapours/spray
- P264 — Wash thoroughly after handling
- P272 — Contaminated work clothing must not be allowed out of the workplace
- P273 — Avoid release to the environment

- P280 — Wear protective gloves, protective clothing and eye/face protection
- P302+P352 — IF ON SKIN: wash with plenty of water and soap
- P305+P351+P338 — IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing
- P333+P313 — If skin irritation or rash occurs: get medical advice/attention
- P337+P313 — If eye irritation persists: get medical advice/attention
- P362+P364 — Take off contaminated clothing and wash it before reuse
- P391 — Collect spillage
- P501 — Dispose of contents/container in accordance with local regulations

Additional Information: Contains epoxy constituents — see information supplied by the manufacturer.

Part B – Hardener Component

GHS Classification

Hazard Class	Classification
Acute toxicity (inhalation)	H332 — Harmful if inhaled
Skin irritation	Category 2 — H315: Causes skin irritation
Eye irritation	Category 2A — H319: Causes serious eye irritation
Skin sensitisation	Category 1 — H317: May cause an allergic skin reaction

Signal Word: WARNING

- GHS Pictogram — GHS07 (Exclamation Mark): Acute inhalation toxicity (harmful), skin/eye irritation and skin sensitisation

Hazard Statements:

- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled

Precautionary Statements:

- P261 — Avoid breathing vapours/aerosols
- P264 — Wash thoroughly after handling
- P270 — Do not eat, drink or smoke when using this product
- P271 — Use only in well-ventilated areas
- P272 — Contaminated work clothing must not be allowed out of the workplace
- P280 — Wear protective gloves, protective clothing and eye/face protection
- P302+P352 — IF ON SKIN: wash with plenty of water and soap

- P304+P340 — IF INHALED: remove person to fresh air and keep comfortable for breathing
 - P305+P351+P338 — IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing
 - P312 — Call a poison centre or doctor if you feel unwell
 - P321 — Specific treatment — see Section 4 (First-Aid Measures)
 - P333+P313 — If skin irritation or rash occurs: get medical advice/attention
 - P337+P313 — If eye irritation persists: get medical advice/attention
 - P362+P364 — Take off contaminated clothing and wash it before reuse
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- P501 — Dispose of contents/container in accordance with local regulations

IMPORTANT SAFETY NOTE — NITROSAMINE FORMATION RISK

Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected carcinogenic N-nitrosamines could form. See Section 10 for the full list of materials to avoid.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Part A – Resin Component

Name	CAS No.	Content	GHS Classification
Reaction product of epichlorohydrin and bisphenol A (epoxy resin, average MW ≤ 700)	25068-38-6	80–90%	H315, H317, H319, H411*
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs (reactive diluent)	68609-97-2	5–10%	H315, H317

CLASSIFICATION NOTE

The source technical data leaves the classification cell blank for this ingredient in the composition table. The eye-irritation (H319) and aquatic-toxicity (H411) hazards are, however, explicitly stated at product level (Section 2) and are not accounted for by the second ingredient, which is classified only for skin irritation and sensitisation. As the dominant component (80–90%), this epoxy resin is the attributable source of those hazards; the classification above reflects the product-level data rather than a literal transcription of that table cell.

INGREDIENT SAFETY NOTE — NMP

This product contains a trace quantity of N-methyl-2-pyrrolidone (NMP, CAS 872-50-4) below the concentration threshold that would trigger mixture classification. NMP is separately classified as a Reproductive Toxicant, Category 1B (H360D — May damage the unborn child) in its own right. Occupational exposure should be minimised as described in Section 8.

Part B – Hardener Component

Name	CAS No. / EC No.	Content	GHS Classification
2,4,6-Tris(diethylaminomethyl)phenol	90-72-2 / 202-013-9	< 5%	H302, H315, H319 (own classification)
Polyamide curing agent (amidoamine, Manniche base reaction product)	Proprietary polymeric substance	80–100%	Contributes H315, H317, H319, H332 to the mixture — see Section 11

Ingredient Comments: Chemical family: Manniche base (2,4,6-tris(diethylaminomethyl)phenol) and amidoamine (polyamide curing agent). The exact composition of the polyamide curing agent is proprietary to the resin supplier.

CLASSIFICATION NOTE

2,4,6-Tris(diethylaminomethyl)phenol carries its own H302 (harmful if swallowed) classification, but at < 5% concentration this is below the level needed to classify the mixture as a whole, and the product's own acute oral toxicity data (LD50 > 2,000 mg/kg, Section 11) confirms the finished product does not meet the Category 4 oral cutoff. H302 is therefore not carried through to the product-level classification in Section 2, though the individual ingredient hazard is noted here for completeness.

SECTION 4: FIRST-AID MEASURES

Part A – Resin Component

Inhalation	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.
Skin Contact	Remove affected person from the source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye Contact	Remove the victim immediately from the source of exposure. Remove any contact lenses before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue rinsing for at least 15 minutes and get medical attention.

Part B – Hardener Component

General Advice	Seek medical advice. If breathing has stopped or is laboured, give assisted respiration; supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately.
Inhalation	Move to fresh air. If breathing has stopped or is laboured, give assisted respiration; supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin CPR immediately.

Ingestion	Never give anything by mouth to an unconscious person. If a person vomits while lying on their back, place them in the recovery position and turn the head to the side to prevent aspiration of vomit.
Skin Contact	Wash off immediately with plenty of water for at least 20 minutes. Immediately remove contaminated clothing, and any extraneous chemical if this can be done without delay. Take off contaminated clothing and shoes immediately. Note to physician: Application of a corticosteroid cream has been found effective in treating skin irritation caused by this type of product.
Eye Contact	Rinse immediately with plenty of water, including under the eyelids, for at least 20 minutes. Remove contact lenses if present.

SECTION 5: FIRE-FIGHTING MEASURES

Part A – Resin Component

Extinguishing Media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Special Fire-Fighting Procedures	Avoid breathing fire vapours.
Protective Measures in Fire	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Part B – Hardener Component

Extinguishing Media	Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical. Dry sand. Limestone powder.
Specific Hazards	Ammonia gas may be liberated at high temperatures. In case of incomplete combustion, an increased formation of oxides of nitrogen (NO _x) is to be expected. Incomplete combustion may form carbon monoxide. May generate ammonia gas and toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.
Special Protective Equipment for Fire-Fighters	Use personal protective equipment. Wear self-contained breathing apparatus for fire-fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Part A – Resin Component

Personal Precautions	Wear protective clothing as described in Section 8 of this data sheet.
Environmental Precautions	Avoid discharge into drains, watercourses or onto the ground.
Spill Clean-Up Methods	Stop the leak if this can be done without risk. Absorb using vermiculite, dry sand or earth and place into containers. Flush the spillage area with plenty of water. Do not allow the product to enter water sources or the sewer.

Part B – Hardener Component

Personal Precautions	Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.
Environmental Precautions	Construct a dike to prevent spreading.
Methods for Cleaning Up	Contact the supplier for advice. Approach suspected leak areas with caution. Place in an appropriate chemical waste container.
Additional Advice	Ventilate enclosed spaces to the outside atmosphere. If possible, stop the flow of product.

SECTION 7: HANDLING AND STORAGE

Part A – Resin Component

Usage Precautions	Avoid spilling. Avoid skin and eye contact.
Storage Precautions	Store in the tightly closed original container, in a dry, cool and well-ventilated place. Keep in the original container.
Storage Class	Chemical storage.

Part B – Hardener Component

CAUTION

Do not use sodium nitrite or other nitrosamine agents in formulations containing this product. Suspected carcinogenic N-nitrosamines could be formed.

Usage Precautions	Emergency showers and eyewash stations should be readily accessible. Use only in well-ventilated areas. Avoid contact with eyes. Avoid breathing vapours and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.
Storage Precautions	Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place. Product may partially freeze with extended exposure to cold temperatures, resulting in crystallisation or haziness/separation. If this occurs, the product should be warmed to 38–60°C (100–140°F) for one hour and stirred until clear.
Technical Measures / Precautions	Do not store in reactive metal containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Part A – Resin Component

Name	Standard	LT-ppm	LT-mg/m ³	ST-ppm	ST-mg/m ³
N-Methyl-2-pyrrolidone (NMP)	OEL (WHO Guideline Value)	25 (Sk)	103 (Sk)	75 (Sk)	309 (Sk)

Note: Kenyan workplaces should refer to occupational exposure limits established by the Directorate of Occupational Safety and Health Services (DOSHS) under the Occupational Safety and Health Act (OSHA), 2007. The values above are provided as WHO/international occupational guideline reference limits pending specific Kenyan gazetted limits for this substance. "Sk" denotes that the substance can be absorbed through the skin.

Process Conditions	Provide an eyewash station.
Engineering Measures	Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of vapours.
Respiratory Equipment	No specific recommendation made under normal use, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
Hand Protection	Use protective gloves made of nitrile rubber or Viton® (fluoroelastomer). Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.
Eye Protection	Wear tight-fitting goggles or a face shield (EN 166).
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Do not smoke in the work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use an appropriate skin cream to prevent drying of the skin. Do not eat, drink or smoke when using this product.

Part B – Hardener Component

Engineering Measures	Provide readily accessible eyewash stations and safety showers. Provide natural or explosion-proof ventilation adequate to keep concentrations below occupational exposure limits.
Respiratory Protection	Wear an appropriate respirator when ventilation is inadequate (EN 149).
Hand Protection	Butyl rubber. Nitrile rubber. Neoprene gloves. Impervious gloves. The breakthrough time of the selected glove(s) must be greater than the intended period of use.
Eye Protection	Chemical-resistant goggles must be worn (EN 166).
Skin and Body Protection	Long-sleeved shirts and trousers without cuffs.
Environmental Exposure Controls	Construct a dike to prevent spreading.
Special Instructions for Protection and Hygiene	Discard contaminated leather articles, as they cannot be effectively decontaminated. Provide readily accessible eyewash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet.

Note: Kenyan workplaces should refer to occupational exposure limits established by the Directorate of Occupational Safety and Health Services (DOSHS) under the Occupational Safety and Health Act (OSHA), 2007.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Part A — Resin	Part B — Hardener
Appearance / Form	Liquid	Liquid
Colour	Clear liquid	Brownish
Odour	Characteristic	Not stated
Solubility	Immiscible with water	Not stated
Density	Not stated	Approx. 0.98 g/cc

SECTION 10: STABILITY AND REACTIVITY

Part A — Resin Component

Stability	Stable under normal temperature conditions.
Conditions to Avoid	Avoid contact with acids and alkalis.
Hazardous Polymerisation	Will not polymerise.
Materials to Avoid	Strong oxidising substances.
Hazardous Decomposition Products	Fire creates carbon monoxide (CO) and carbon dioxide (CO ₂).

Part B — Hardener Component

Stability: Stable under normal conditions.

CAUTION — NITROSAMINE FORMATION

N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when this product comes into contact with nitrous acid, nitrites, or atmospheres with high nitrous oxide concentrations.

Materials to Avoid	Also avoid: nitrous acid and other nitrosamine agents; organic acids (e.g. acetic acid, citric acid); mineral acids; sodium hypochlorite. This product slowly corrodes copper, aluminium, zinc and galvanised surfaces. Reaction with peroxides may result in violent decomposition, possibly creating an explosion. Avoid oxidising agents.
Hazardous Decomposition Products	Nitric acid. Ammonia. Nitrogen oxides (NO _x) — nitrogen oxide can react with water vapour to form corrosive nitric acid. Carbon monoxide. Carbon dioxide (CO ₂). Nitrosamine.

SECTION 11: TOXICOLOGICAL INFORMATION

Part A — Resin Component

Inhalation	Irritating to the respiratory system.
Ingestion	May cause stomach pain or vomiting.
Skin Contact	May cause sensitisation by skin contact. Irritating to skin.
Eye Contact	May cause severe irritation to eyes.

Part B – Hardener Component

Acute Toxicity — Ingestion	LD50: > 2,000 mg/kg (species: rat; method: estimated).
Acute Toxicity — Skin	LD50: 8,550 mg/kg (species: rabbit).
Eye Irritation / Corrosion	Causes eye irritation.
Acute Dermal Irritation / Corrosion	Moderate skin irritation.
Sensitisation	May cause sensitisation by skin contact. Sensitisation has occurred in laboratory animals after repeated exposures.
Chronic Health Hazard	This product contains no substance listed as a carcinogen by IARC, ACGIH, or NTP at a concentration of 0.1% or greater.

SECTION 12: ECOLOGICAL INFORMATION

Part A – Resin Component

Ecotoxicity: Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

Part B – Hardener Component

Aquatic Toxicity	No data is available on the product itself.
Toxicity to Other Organisms	No data available.
Persistence and Degradability	No data available.
Mobility	No data available.
Bioaccumulation	No data is available on the product itself.

Note: In the absence of ecotoxicity data, this product is not classified as hazardous to the aquatic environment. This should be treated as a data gap rather than confirmation of low environmental hazard.



SECTION 13: DISPOSAL CONSIDERATIONS

Part A – Resin Component

Disposal Methods: Dispose of waste and residues as hazardous waste, in accordance with the requirements of the National Environment Management Authority (NEMA) and applicable county/local authority regulations.

Part B – Hardener Component

Waste from Residues / Unused Product	Contact the supplier for guidance if required.
Contaminated Packaging	Dispose of the container and any unused contents in accordance with the requirements of the National Environment Management Authority (NEMA) and applicable county/local authority regulations.

SECTION 14: TRANSPORT INFORMATION

Part A – Resin Component

UN Number	UN 3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy resin, number average MW $\leq$ 700)
Transport Hazard Class	Class 9 — Miscellaneous dangerous substances and articles
Packing Group	III
Applicable Modes	Classified as UN 3082, Class 9, Packing Group III for road (ADR), rail (RID), sea (IMDG) and air (IATA) transport
Marine Pollutant	No

Part B – Hardener Component

Road / Rail (ADR / RID)	Not classified as dangerous goods
Sea (IMDG)	Not classified as dangerous goods
Air (IATA)	Not classified as dangerous goods
Marine Pollutant	No

Further information: This transport information does not convey all specific regulatory data relating to this material. For complete transport information, contact BGSB Construction Products Ltd.

SECTION 15: REGULATORY INFORMATION

Part A – Resin Component

Hazard Class	Classification
Skin irritation	Category 2 (H315)
Eye irritation	Category 2A (H319)
Skin sensitisation	Category 1 (H317)
Hazardous to the aquatic environment (long-term)	Category 2 (H411)

Hazard Statements: H315, H317, H319, H411 — see Section 2 for full text.

Precautionary Statements: P261, P264, P272, P273, P280, P302+P352, P305+P351+P338, P333+P313, P337+P313, P362+P364, P391, P501.

Named Ingredients (CONTAINS): Epoxy resin (number average MW ≤ 700) — CAS 25068-38-6; Oxirane, mono[(C12-14-alkyloxy)methyl] derivs — CAS 68609-97-2.

Applicable Legislation: Users in Kenya should refer to the Occupational Safety and Health Act (OSHA), 2007, and applicable regulations issued by DOSHS, and to the Environmental Management and Co-ordination Act administered by NEMA for disposal and environmental matters.

Part B – Hardener Component

Hazard Class	Classification
Acute toxicity, inhalation	Harmful (H332)
Skin irritation	Category 2 (H315)
Eye irritation	Category 2A (H319)
Skin sensitisation	Category 1 (H317)

Hazard Statements: H315, H317, H319, H332 — see Section 2 for full text.

Precautionary Statements: P261, P264, P270, P271, P272, P280, P302+P352, P304+P340, P305+P351+P338, P312, P321, P333+P313, P337+P313, P362+P364, P501.

Named Ingredients: 2,4,6-Tris(diethylaminomethyl)phenol — CAS 90-72-2.

Applicable Legislation: Users in Kenya should refer to the Occupational Safety and Health Act (OSHA), 2007, and applicable regulations issued by DOSHS, and to the Environmental Management and Co-ordination Act administered by NEMA for disposal and environmental matters.

Additional Regulatory Note: This product does not contain any substance listed by IARC, ACGIH, NTP, or otherwise known to cause cancer, birth defects or other reproductive harm, at a concentration of 0.1% or greater.



SECTION 16: OTHER INFORMATION

Training Advice: The details of this data sheet must be passed on to all personnel handling the product (both components).

Health & Safety Summary (Part B — Hardener): Based on the source hazard data: Health hazard — moderate (irritant, sensitiser, harmful if inhaled); Flammability hazard — slight; Physical hazard — minimal.

Revision Note: This combined Safety Data Sheet has been prepared by BGSB Construction Products Ltd for the Jenga® / FloorSafe™ range, consolidating the individually issued Part A (Resin) and Part B (Hardener) data sheets, adapted from source technical data and converted to Globally Harmonized System (GHS) classification format for the Kenyan market. Revision date for both components: July 2026.

This information relates only to the specific materials designated and may not be valid for such materials used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. BGSB Construction Products Ltd accepts no liability for any loss or damage arising from the use of this product otherwise than in accordance with the instructions provided.

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