

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: E5691 Epoxy Side B
Product Code: E5691B, E5691B-1, E5691B-5

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Product Use: Architectural Coating and Waterproofing
 Use this product in accordance with all local, regional, national and international regulations.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: Firestone Building Products Company, LLC
 200 4th Avenue South
 Nashville, TN 37201
 Gaco is a Firestone Building Products brand

Telephone Number: 800-331-0196 / **International:** 001-800-331-0196

Email: sds@gaco.com

Website: www.gaco.com

1.4 EMERGENCY TELEPHONE NUMBER

For Chemical Emergency
 Spill, Leak, Fire, Exposure, or Incident
 Within USA and Canada: 1-800-424-9300
 Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL

Hazard class:

HAZARD CLASSIFICATION	CATEGORY
Acute Toxicity - Oral	4
Eye Damage/Irritation	1

2.2 LABEL ELEMENTS

Hazard pictogram: GHS05, GHS07



SAFETY DATA SHEET

Signal word:	Danger
Hazard statement:	Harmful if swallowed Causes serious eye damage
Prevention:	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective eye protection/face protection.
Response:	If swallowed: Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Rinse mouth.
Storage:	Store in a well-ventilated place. Keep container tightly closed.
Disposal:	Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 ADDITIONAL INFORMATION

Main symptoms:	Harmful if swallowed. Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Hazards not otherwise specified:	None Known

30-60% of the mixture consists of ingredient(s) of unknown acute toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Material	CAS No.	Weight %*
Mannich Base Adduct	-	40-70%
Other components below reportable levels	--	30-60%

*The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURES

General information:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact:	Wash skin with plenty of soap and water. Get medical attention if irritation develops and persists.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion:	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

SAFETY DATA SHEET

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Harmful if swallowed.

Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to physicians: Treat symptomatically.
Specific treatments: In case of accident or if you feel unwell, seek medical advice (show the label or SDS where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

General hazards: No unusual fire or explosion hazard.
Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2)
Unsuitable extinguishing media: Do not use water jet as an extinguisher as this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Specific hazards: During fire, gases hazardous to health may be formed.
Products of combustion: May include, and are not limited to: oxides of carbon.

5.3 Special protective equipment and precautions for fire-fighters (PPE)

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire-fighting procedures: Keep upwind of fire. Move containers from fire area if you can do it without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning-up: Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS.
Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions: Never return spills to original containers for re-use. Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

SAFETY DATA SHEET

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for Safe handling: Observe good industrial hygiene practices.
General hygiene advice: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Safe storage: Store away from incompatible materials.
Specific use: Architectural Coating and Waterproofing
Technical measures: No specific recommendations.
Incompatible materials: Epoxy will cause exothermic reaction.
Safe packaging material: No specific recommendations.
Precautions: Use personal protective recommended in Section 8 of the SDS.
Safe handling advice: Observe good industrial hygiene practices.
Suitable storage conditions: Store away from incompatible materials.
Handling-technical measures: No specific recommendations.
Local and general ventilation: Provide adequate ventilation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Control parameters: Follow standard monitoring procedures.
Exposure limits: None

8.2 EXPOSURE CONTROLS

Engineering measures to reduce exposure:
 Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.3 INDIVIDUAL PROTECTIVE MEASURES

General: Use personal protective equipment as required.
Eye protection: Wear safety glasses with side shields (or goggles) and a face shield.
Hand protection: For prolonged or repeated skin contact, use suitable protective gloves.
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Skin and body protection: Wear suitable protective clothing.
Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls: Environmental manager must be informed of all major releases.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

SAFETY DATA SHEET

Appearance:	Clear Amber Liquid
Color:	Clear amber
Form:	Liquid
Odor:	Amine like
Odor Threshold:	Not applicable
Physical State:	Liquid
pH (at 20°C):	11.2
Melting Point/Freezing Point:	Not applicable
Initial Boiling Point and Boiling Range:	Not applicable
Flash Point:	219°F/104°C
Evaporation Rate:	Not applicable
Flammability (solid, gaseous):	Not Flammable
Lower Flammability/Explosive Limit:	Not applicable
Upper Flammability/Explosive Limit:	Not applicable
Vapor Pressure (mm Hg @38°C):	Not applicable
Vapor Density:	Not applicable
Density (lb/gal):	9.01
Relative Density/Specific Gravity:	1.1
Solubility in water/miscibility:	Soluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	Not applicable
Viscosity (at 25°C):	400 mPa.s
Oxidizing Properties:	Not applicable
Explosive Properties:	Not applicable
VOC:	<10 g/L (<0.083 lb/gal)
Solvent content - Organic:	Not applicable
Solvent content - Water:	Not applicable
Solvent content - Solids:	100%
Other information:	Not applicable
Incompatibilities:	Epoxy will cause exothermic reaction.

SECTION 10: STABILITY AND REACTIVITY

- 10.1 REACTIVITY** The product is stable and non-reactive under normal conditions of use, storage and transport.
- 10.2 CHEMICAL STABILITY**
- Chemical stability:** Material is stable under normal conditions.
- Materials to avoid:** The product is stable and non-reactive under normal conditions of use, storage and transport.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS**
- Hazardous reactions:** No dangerous reaction known under conditions of normal use.
- 10.4 CONDITIONS TO AVOID** Contact with incompatible materials.
- 10.5 INCOMPATIBLE MATERIALS** Epoxy will cause exothermic reaction.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS**
- Hazardous decomposition products:** No hazardous decomposition products are known.
- Hazardous polymerization:** Does not occur.
- Other information:** Not applicable.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity: Harmful if swallowed. Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Likely routes of exposure: Skin contact. Eye contact.

Eye: Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Skin: No adverse effects due to skin contact are expected. Prolonged skin contact may cause dryness, redness, or cracking.

Ingestion: Harmful if swallowed.

Inhalation: Not an expected route of exposure. No adverse effects due to inhalation are expected.

LD50/LC50 values relevant to this classification:

Mannich Base Adduct

Oral rat LD50 500<2,000 mg/kg bw
 Derm rabbit LD50 >2,000 mg/kg bw

Calculated overall chemical acute toxicity values for this formulation:

Calculated overall Chemical Acute Toxicity Values		
LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
>5 mg/kg (dust and mist)	500<2000 mg/kg	>2000 mg/kg

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin corrosion/irritation: Based on available data, this product is not expected to cause skin corrosion or irritation. Prolonged skin contact may cause dryness, redness, or cracking.

Serious eye damage/irritation: Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Respiratory sensitization: Based on available data, this product is not expected to cause respiratory sensitization.

Skin sensitization: Based on available data, this product is not expected to cause skin sensitization.

Symptoms and target organs: Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Chronic health effects: No chronic health effects known.

Carcinogenicity: This product is not classified as a carcinogen.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity (STOT):

Single Exposure: Not classified as an STOT - Single Exposure.

Repeated Exposure: Not classified as an STOT - Repeated Exposure.

Aspiration Toxicity: Based on available data, this product is not expected to cause aspiration toxicity.

Other Information: Not applicable.

SAFETY DATA SHEET

SECTION 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Acute aquatic toxicity: The product is not classified as acutely environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chronic toxicity: The product is not classified as having a chronic environmental hazard. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental effects: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2 PERSISTENCE AND DEGRADABILITY

Persistence/biodegradability: The product contains substances which are not expected to be readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY

Mobility: No data available.

Mobility in soil: No data available.

Mobility in non-soil: No data available.

12.5 OTHER ADVERSE EFFECTS

Ozone layer: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of contents and container in accordance with all local, regional, national and international regulations.

EU codes: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Residual waste: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Waste codes: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Other disposal recommendations: None

SECTION 14: TRANSPORT INFORMATION

DOT Non-Bulk

SAFETY DATA SHEET

Not classified as Dangerous Goods for Transport

DOT Bulk

Not classified as Dangerous Goods for Transport

IMO/IMDG

Not classified as Dangerous Goods for Transport

ICAO/IATA

Not classified as Dangerous Goods for Transport

Reportable quantity: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

US Federal Regulations:

U.S. OSHA (Occupational Safety and Health Administration) Specifically Regulated Substances (29 CFR 1910.1001-1050)

No components of this product are present at concentration greater than or equal to 0.1% and are identified as a carcinogen or potential carcinogen by OSHA.

SARA/CERCLA reporting requirements:

No components of this product are found at concentrations greater than or equal to 0.1% and are subject to the SARA/CERCLA reporting requirements.

State Right-to-Know Regulations

No components of this product are found at concentrations greater than or equal to 0.1% and are subject to state Right-to-Know reporting requirements.

Global Inventories:

Notification status:	
US - TSCA	(Not) all substances are listed
Canada -DSL	All substances are listed
Canada - NDSL	No substances are listed
EU - EINECS	All substances are listed
EU - ELINCS	No substances are listed
EU - NLP	No substances are listed
Australia – AICS	All substances are listed
China - EICSC	All substances are listed
Japan - ENCS	All substances are listed
Korea - KECI	All substances are listed
Taiwan - NECI	All substances are listed
New Zealand - NZIoC	All substances are listed
Philippine - PICCS	All substances are listed

EU - REACH Status:

SAFETY DATA SHEET

A registration number is not available for substances in this mixture as the substances are exempted from registration or the annual tonnage does not require a registration.

HAZARD CLASSIFICATION	CATEGORY
Acute Toxicity - Oral	4
Eye Damage/Irritation	1

CANADA – WHMIS (Workplace Hazardous Materials Information System) Classification (GHS):

HAZARD CLASSIFICATION	CATEGORY
Acute Toxicity - Oral	4
Eye Damage/Irritation	1

MEXICO (GHS):

HAZARD CLASSIFICATION	CATEGORY
Acute Toxicity - Oral	4
Eye Damage/Irritation	1

Carcinogen Status: No data available.

SECTION 16: OTHER INFORMATION

HMIS (Hazardous Materials Identification System) rating:

Health:	3
Flammability:	1
Physical:	0

NFPA 704 (National Fire Protection Association) rating:

Health	3
Fire	1
Reactivity	0

Legend:

DOT	US Department of Transportation
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ACGIH	American Conference of Governmental Industrial Hygienists
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
PPE	Personal Protective Equipment
RCRA	Resource Conservation and Recovery Act
CAA	Clean Air Act
SARA	Superfund Amendments and Reauthorization Act
EPCRA	Emergency Planning and Community Right-to-Know Act
WHMIS	Workplace Hazardous Materials Information System
EU	European Union
REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
TSCA	US Toxic Substances Control Act (TSCA)
DSL	Canada Domestic Substance List (DSL)

SAFETY DATA SHEET

NDSL	Canada Non-Domestic Substance List (NDSL)
EINECS	European Inventory of Existing Commercial Chemical Substances (EINECS)
ELINCS	European List of Notified Chemical Substances (ELINCS)
NLP	European list of No-longer Polymers (NLP)
AICS	Australian Inventory of Chemical Substances (AICS)
EICSC	China Existing Chemical Inventory - IECSC
ENCS	Japanese Existing and New Chemical Substances Inventory(ENCS)
KECI	Korea Existing Chemicals Inventory(KECI)
NECI	Taiwan National Existing Chemical Inventory (NECI)
NZIoC	New Zealand Inventory of Chemicals (NZIoC)
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
HMIS	Hazardous Materials Identification System
NFPA	National Fire Protection Association (NFPA)

Date of preparation: June 13, 2019

Version: 1.0

Revision Date: June 13, 2019

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Prepared by: Firestone Building Products Company, LLC
200 4th Avenue South
Nashville, TN 37201
Gaco is a Firestone Building Products brand

End of Safety Data Sheet