



Safety Data Sheet

Date Revised: 01/21/2023

Supersedes: none

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade Name Five Star® LC Epoxy Grout / Component A Resin
Registration number -
Synonyms Epoxy resin, Component A
Issue Date 01-21-2023
Version number A
Revision date 01-21-2023
Supersedes date none

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Grouting and repair
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Supplier Precon Products Ltd.
Unit 1, Venture Road,
Lawnfarm Business Park,
Woolpit, SUFFOLK,
IP31 9RZ
+ 44 (0) 844 800 2462

1.4 Emergency telephone number: VelocityEHS
1-813-248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction
Eye irritation	Category 2	H319 - Causes serious eye irritation

Environmental hazards

Aquatic Chronic	Category 2	H411 - Toxic to aquatic life with long lasting effects.
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2.2 Label elements

Label according to Regulation (EC) No. 1272/2008 as amended
Hazard Pictograms

Signal Word

Warning

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
Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection

Response

P302+P352	IF ON SKIN: Wash with plenty of water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage

Storage

Not assigned

Disposal

Not assigned

2.3 Other hazards:

No data available on this product.

SECTION 3: Composition/information on ingredients
3.2 Mixtures
General information

Chemical Name	Index No.	CAS-No.	EC No.	REACH Registration No.	Conc. (%w/w)	Classification
Bisphenol A-(epichlorhydrin) (reaction product)	603-074-00-8	25068-38-6	500-033-5	01-2119456619-26	60 - 70%	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411;
bisphenol F-epoxy resin		9003-36-5	500-006-8	01-2119454392-40	10 - 20%	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; Aquatic Chronic 2: H411;
Oxiran, Mono[(C12-14-alkyloxy)methyl]-derivative	603-103-00-4	68609-97-2	271-846-8	01-2119485289-22	10 - 20%	Skin Irrit. 2: H315; Skin Sens. 1: H317;
3-glycidyl-oxypropyl-trimethoxy-silane		2530-83-8	219-784-2		0.5 - 1%	Eye Dam. 1: H318;

SECTION 4: First aid measures
4.1 Description of first aid measures

Inhalation	Move the exposed person to fresh air
Eye Contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin Contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
Ingestion	Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye Contact	May cause irritation to eyes.
Skin Contact	May cause irritation to skin
Ingestion	Ingestion may cause nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Inhalation	Seek medical attention if irritation or symptoms persist.
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Eye Contact	Seek medical attention if irritation or symptoms persist.
Skin Contact	Seek medical attention if irritation or symptoms persist.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use extinguishing media appropriate to the surrounding fire conditions. Dry chemical. Foam. Carbon oxides.

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 Burning produces irritating, toxic and obnoxious fumes.

5.3 Advice for firefighters Wear self contained breathing apparatus and protective clothing. Do not allow runoff water to enter sewers or drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures Ensure adequate ventilation of the working area. Avoid contact with skin and eyes.

6.2 Environmental precautions Do not allow product to enter drains. Do not flush into surface water. Prevent further spillage if safe.

6.3 Methods and material for containment and cleaning up Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4 Reference to other sections See section 8 for further information. See section 13 for further information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying, and dispensing.

7.2 Conditions for safe storage, including any incompatibilities Keep containers tightly closed. Keep in a cool, dry, well-ventilated area. Store in correctly labelled containers.

7.3 Specific end use(s) Grouting and repair.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters No exposure limit value known. If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods of the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.1.1 Exposure Limit Values

**Bisphenol A-(epichlorhydrin)
(reaction product)**

WEL 8-hr limit ppm:
 WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total
 inhalable dust: WEL 8-hr limit mg/m3 total
 respirable dust:
 WEL 8-hr limit mg/m3: 12.3
 WEL 15 min limit mg/m3: WEL 15 min limit mg/m3 total
 inhalable dust: WEL 15 min limit mg/m3 total
 respirable dust:

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation of the working area.

8.2.2 Individual protection measures

Wear protective clothing.

Eye/Face Protection

Approved safety goggles.

Skin Protection

Hand protection

Butyl rubber gloves. Chemical resistant gloves. Polyvinyl chloride - PVC ().

Other

Wear suitable protective clothing.

Respiratory protection

Wear suitable respiratory equipment when necessary.

Occupational exposure controls

Keep away from food, drink, and animal feeding stuffs

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Form	Clear liquid
Colour	Various
Odour	Slight



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pH	No data available
Melting Point / Freezing Point	No data available
Initial Boiling Point	100°C
Flash Point	130°C
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Explosive limit – lower (%)	No data available
Explosive limit – upper (%)	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Relative Density	1.13 (H ₂ O = 1 @ 20°C)
Fat Solubility	No data available
Partition Coefficient	No data available
Auto-ignition Temperature	No data available
Viscosity	700 mPas (Cone & Plate)
Explosive Properties	No data available
Oxidising properties	No data available
Solubility	Slightly soluble in water

9.2 Other information

Conductivity	No data available
Surface tension	No data available
Gas Group	No data available
Benzene Content	0%
Lead Content	0%
VOC (Volatile organic compounds)	0 g/l



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SECTION 10: Stability and reactivity

- 10.1 Reactivity** Stable under normal conditions.
- 10.2 Chemical stability** Stable under normal conditions.
- 10.3 Possibility of hazardous reactions** No data is available on this product.
- 10.4 Conditions to avoid** Heat will increase pressure in sealed containers.
- 10.5 Incompatible materials** Carbon oxides.
- 10.6 Hazardous decomposition products** Will not decompose if stored and used as recommended.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Skin corrosion/irritation** May cause irritation to skin.
- Serious eye damage/irritation** May cause irritation to eyes.
- Respiratory or skin sensitisation** May cause sensitisation by skin contact.
- Germ cell mutagenicity** No mutagenic effects reported.
- Carcinogenicity** No carcinogenic effects reported.
- Reproductive toxicity** No observed effect level. No teratogenic effects reported.
- Repeated or prolonged exposure** Once sensitised, an allergic reaction may occur when subsequently exposed to very low levels.

11.1.4 Toxicological Information

Components	Species	Test Results
Bisphenol A-(epichlorhydrin) (reaction product)		
Dermal LD50	Rat	> 2000 mg/kg
Inhalation LC50/4hr	Rat	> 0.15 mg/l
Oral LD50	Rat	> 2000 mg/kg

SECTION 12: Ecological information

- 12.1 Toxicity** Toxic to aquatic life with long lasting effects.

Component	Species	Test Results
Bisphenol A-(epichlorhydrin) (reaction product)		
EC50/48 hours	Daphnia	1.7000 mg/l
LC50/96 hours	Fish	1.5000 mg/l

LC50/72 hours	Algae	9.4000 mg/l
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12.2 Persistence and Degradability Not readily biodegradable.

12.3 Bio-accumulative Potential Low

Partition coefficient No data available.

12.4 Mobility in soil No data available.

12.5 Results of PBT and vPvB assessment No data available.

12.6 Other adverse effects No data available.

SECTION 13: Disposal considerations

13.1 Waste Treatment Methods

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.

General information 08 02 99 wastes not otherwise specified.

Disposal methods The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Waste packaging should be recycled if possible. Incineration should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned. Empty containers or liners may still contain residue. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Disposal of packaging Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Do NOT reuse empty containers.

SECTION 14: TRANSPORT INFORMATION

Hazard pictograms



14.1. UN number UN3082



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14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A-Epoxy Resin)
14.3. Transport hazard class(es)	
ADR/RID	9
Subsidiary risk	-
IMDG	9
Subsidiary risk	-
IATA	9
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards / Marine pollutant	Yes
14.6. Special precautions for user	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of a spillage.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	For transport approval see regulatory information
ADR/RID	
Hazard ID	90
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-F
IATA	
Packagin Instruction (Cargo)	964
Maximum quantity	450 L
Packing Instruction (Passenger)	964
Maximum quantity	450 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
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of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Text of Hazard Statements in Section 3

Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction
Eye Irrit. 2: H319 - Causes serious eye irritation.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Eye Dam. 1: H318 - Causes serious eye damage.

Maximum content of VOC

0 g/l

Disclaimer

Five Star Products, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.