



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 B Hardener
Registration number -
Synonyms Epoxy hardener, Component B
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

Acute toxicity	Category 4	H302 Harmful if swallowed
Skin corrosion	Category 1B	H314 Causes severe skin burns and eye damage.
Skin sensitisation	Category 1	H317 May cause an allergic skin reaction.

Environmental hazards

Aquatic Chronic	Category 3	H412 Harmful 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

Danger

Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements
Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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

P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.



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P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.

Storage P405 - Store locked up.

Disposal Not assigned

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
trimethylhexamethylenediamine		25620-58-0	247-134-8	01-2119560598-25	90 - 100%	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1 H317; Aquatic Chronic 3: H412;
p-Toluenesulphonic acid (containing a maximum of 5% H2SO4)	016-030-00-2	104-15-4	203-180-0	01-2119538811-39	1 - 10%	Eye Irrit. 2: H319; STOT SE3: H335; Skin Irrit. 2: H315

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. Remove contact lenses, if present and easy to do. Continue rinsing.
- 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** Risk of serious damage to eyes.
- Skin Contact** May cause irritation to skin
- Ingestion** Causes burns. Ingestion may cause nausea and vomiting.



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4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use as appropriate: Carbon dioxide (CO₂), Dry chemical, Foam, Water.

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 Corrosive. Burning produces irritating, toxic and obnoxious fumes.

5.3 Advice for firefighters Wear self-contained breathing apparatus and protective clothing.

Further information Dispose of as special waste in compliance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment. Avoid contact with skin and eyes.

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

6.3 Methods and material for containment and cleaning up Absorb with inert, absorbent material. 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 Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying, and dispensing.

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

7.3 Specific end use(s) Grouting and repair.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters	This product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace.
8.2 Exposure controls	
8.2.1 Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2 Individual protection measures	Wear suitable protective clothing.
Eye/Face Protection	Approved safety goggles.
Skin Protection	
Hand protection	Chemical resistant gloves. Butyl rubber gloves.
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	Colourless
Odour	Characteristic
Odour threshold	No data available
pH	11.3
Melting Point / Freezing Point	No data available
Initial Boiling Point	> 200°C
Flash Point	108°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



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Vapour Pressure	No data available
Vapour Density	No data available
Relative Density	No data available
Fat Solubility	No data available
Partition Coefficient	No data available
Auto-ignition Temperature	No data available
Viscosity	5 mPas (Cone & Plate)
Explosive Properties	No data available
Oxidising properties	No data available
Solubility	Miscible 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

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	Reacts with Acids, Alkalis, Oxidising Agents.
10.4 Conditions to avoid	Heat
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous decomposition products	No data is available on this product.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Skin corrosion/irritation	Causes burns.
Serious eye damage/irritation	Risk of serious damage to eyes.



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Respiratory or skin sensitisation May cause sensitisation by skin contact.

Germ cell mutagenicity No mutagenic effects reported.

Reproductive toxicity No observed effect level. No teratogenic effects reported.

11.1.4 Toxicological Information

Components	Species	Test Results
trimethylhexamethylenediamine		
Oral LD50	Rat	910 mg/kg

11.1.13. Other information Swallowing will lead to a strong caustic effect on mouth and throat and danger of perforation of esophagus and stomach.

SECTION 12: Ecological information

12.1 Toxicity

Component	Species	Test Results
trimethylhexamethylenediamine		
EC50/48 hrs	Daphnia	31.5 mg/
LC50/96 hours	Fish	10000.0000 mg/l
LC50/72 hours	Algae	29.5000 mg/l

12.2 Persistence and Degradability No data is available on this product.

12.3 Bio-accumulative Potential No data is available on this product.

Partition coefficient No data available.

12.4 Mobility in soil Slightly miscible in water.

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 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS.

08 02 wastes from MFSU of other coatings (including ceramic materials).
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	UN2327
14.2. UN proper shipping name	TRIMETHYLHEXAMETHYLENEDIAMINE (MIXTURE)
14.3. Transport hazard class(es)	
ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards / Marine pollutant	No
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.



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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 80

Tunnel Category (E)

IMDG

EmS Code F-A S-B

IATA

Packagin Instruction (Cargo) 856

Maximum quantity 60 L

Packing Instruction (Passenger) 852

Maximum quantity 5 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

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.



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SECTION 16: Other information

Text of Hazard Statements in Section 3

Acute Tox. 4: H302 - Harmful if swallowed.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Skin Irrit. 2: H315 - Causes skin irritation.
Eye Irrit. 2: H319 - Causes serious eye irritation.
STOT SE 3: H335 - May cause respiratory irritation.

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.