



Safety Data Sheet

Date Revised: 09/10/2018

Supersedes: 08/03/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® Elastomeric Grout/Component B

Synonyms: Not Applicable

Product Use: Binder for light rail, elastomeric grouting, vibration dampening.

Restrictions on Use: To be used with Elastomeric Grout/Component A

Manufacturer/Supplier: Five Star Products, Inc.
60 Parrott Drive
Shelton, CT 06484 USA

Phone #: 203-336-7900

Emergency Phone #: CHEM-TEL 1-800-255-3924
(Outside the U.S. 1-813-248-0585)

SECTION 2: HAZARD(S) IDENTIFICATION-GHS INFORMATION

Classification: Acute Toxicity – Oral Category 4
Acute Toxicity – Dermal, Category 4
Sensitization – Skin, Category 1
Eye Irritation, Category 2A
Acute Aquatic Toxicity – Category 1
Chronic Aquatic Toxicity – Category 1

Label Elements/Hazard Pictograms:



Signal Word: Warning

Hazard Statements: H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements/Prevention: P260 Do not breathe dust, fume, gas, mist, vapors, or 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 and face protection.



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Response: P330, P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
 P361, P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 P351 If in eyes: Rinse cautiously with water for several minutes.
 P338 Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a poison center or doctor.
 P313 If skin irritation or rash occurs, P333: Get medical advice/attention.
 P342, P310, P363 If experiencing respiratory symptoms: Call a poison center or doctor. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with applicable regional, national, and local laws and regulations.

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC.
 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
 No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Hazards Not Otherwise Classified: None known

Ingredients with Unknown Toxicity: None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Hazardous Ingredient(s)	Common Name/Synonyms	CAS No.	% wt/wt
Aromatic Thiomethyldiamine	Not Available	Trade Secret	20 - 35
Aromatic Ethyldiamine	Not Available	Trade Secret	2 - 10

SECTION 4: FIRST AID MEASURES

Inhalation: If inhaled: Remove person to fresh air and keep comfortable for breathing.
 If experiencing respiratory symptoms call poison center or doctor.



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Eye Contact: If in eyes: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Immediately call a poison center or doctor if irritation develops. Wash contaminated clothing before reuse.

Ingestion: If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Note to Physicians: Symptoms may not appear immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability and Explosion Information:

Not flammable or combustible by OSHA/WHMIS criteria

Sensitivity to Mechanical Impact:

This material is not sensitive to mechanical impact.

MEANS OF EXTINCTION

Suitable Extinguishing Media:

Small Fire: Dry chemical, CO₂, or water spray.
Large Fire: Dry chemical, CO₂, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material.

Unsuitable Extinguishing Media:

Water spray jet

Product of Combustion:

Carbon Monoxide, Carbon Dioxide. Nitrogen oxides, sulfur oxides.

Protection of Firefighters:

In the event of fire, wear self-contained breathing apparatus with full protective flameproof clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

For large spills: As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150ft). Stay upwind. Keep out of low areas. Ventilate enclosed areas. Notify relevant authorities if necessary.
Small spills: contain/dike spillage with appropriate spillage absorbent and follow clean-up guidance.

Personal Precautions:

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.

Environmental Precautions:

Prevent entry into waterway, sewers, basements, or confined areas.



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Methods for Containment: Stop leak if you can do it without risk.

Methods for Cleanup: Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers.

Other Information: See Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Handling: Do not swallow. Do not breathe mist, vapors, or spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Contaminated work clothing should not be allowed out of workplace. See Section 8 for information on Personal Protective Equipment.

Storage: Store locked up. Store away from incompatible materials, exposure conditions. See Section 10 for information on incompatible materials. For use with polyurethane, nitrogen purge is advised. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	CAS No.	ACGIH(TLV)	OSHA(PEL)
Aromatic Thiomethyldiamine	Trade Secret	Not Available	Not Available
Aromatic Ethyldiamine	Trade Secret	Not Available	Not Available

PEL: Permissible Exposure Limit TLV: Threshold Limit Value.

Engineering Controls: Not normally required. Use mechanical ventilation in enclosed areas.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear chemical safety goggles and full face shield. Ensure that eyewash stations and safety showers are close to the workstation location. Use equipment for eye protection that meets the standards referenced for OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Hand Protection: Wear chemical resistant protective gloves; nitrile, neoprene.

Skin and Body Protection: Wear protective clothing. Clothing with full length sleeves and pants should be worn.

Respiratory Protection: Use respirator when performing operations involving potential exposure to vapor of the product.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices. Follow guidance as recommended in Section 2.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Oily liquid
Color:	Dark
Odor:	sulfur
Odor Threshold:	Not Available
Physical State:	Liquid
pH:	Not Applicable
Melting Point / Freezing Point:	Liquid
Initial Boiling Point:	Not Applicable
Boiling Point:	Decomposes > 270°C (518°F) without boiling
Flash Point:	192°C (378°F) closed cup
Evaporation Rate:	< 1; butyl acetate = 1
Flammability (solid, gas):	Not Available
Lower Flammability Limit:	Not Available
Upper Flammability Limit:	Not Available
Vapor Pressure:	0.1 mm Hg (20°C)
Vapor Density:	11.8, Air = 1
Relative Density:	1.12
Solubility:	Slight, 10 mg/l
Partition Coefficient: n-Octanol/Water:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	150-200 cps
Percent Volatile, wt. %:	0%
VOC Content, wt. %:	0%
Density:	1.12
Coefficient of Water/Oil Distribution:	Not Available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Can decompose at elevated temperatures.



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Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide. Nitrogen oxides, sulfur oxides.
Conditions to Avoid: Excessive heat, exposure to moisture.
Incompatible Materials: Polyurethane resins under uncontrolled conditions; strong oxidizing agents.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral 1500 mg/kg (Rat)

Dermal 2000 mg/kg (Rat)

Inhalation: Not available

Primary Irritant Effect On the Skin: No skin irritation (rabbit 4hrs)

Primary Irritant Effect On the Eye: Slight irritating effect (rabbit)

Sensitization: Sensitization possible through skin contact (guinea pig)

Additional Toxicological Information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
Toxic and/or corrosive effects may be delayed up to 24 hours.

Repeated Dose Toxicity: Not available.

Mutagenicity: In vitro tests showed mutagenic effects for components of this product, however Unscheduled DNA synthesis(UDS), Cell Transformation (Balb-c/3T3), and Chinese Hamster Ovary study are all negative.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity: The material is harmful to the environment.

Acute Toxicity: LC50(Fish, 96 hr): 3.7 mg/l; LC50(Daphnia magna, 48 hr): 0.9 mg/l; LL50(alga, 72 hr): 4.9 mg/l

Persistence and Degradability: The product is partly biodegradable. Significant residuals remain.

Bio-accumulative Potential: Cyprinus carpio (Carp), 28 day exposure time.

Mobility in Soil: No further relevant information available.

Ecotoxicological Effects Remark: Toxic for fish.



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Additional Ecological Information

General Notes: This statement was deduced from products with a similar structure or composition. Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Toxic for aquatic organisms.

PBT Assessment: PBT: Not applicable

vPvB Assessment: vPvB: Not applicabl.

Other Adverse Effects: No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Recommendation: Do not contaminate ponds, waterways or ditches with chemical. Do not allow product to reach sewage system.

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Uncleaned Packaging

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

US DEPARTMENT of TRANSPORTATION (DOT) Proper Shipping Name:

Environmentally hazardous substance, liquid, NOS
(Aromatic thiomethyldiamine)

Class: 9

UN #: UN3082

Packing Group: III

CANADA Transportation of Dangerous Goods (TDG) Proper Shipping Name:

Environmentally hazardous substance, liquid, NOS
(Aromatic thiomethyldiamine)

Class: 9

UN #: UN3082

Packing Group: III

Air Transport (ICAO- IATA/DGR) Proper Shipping Name:

Environmentally hazardous substance, liquid, NOS
(Aromatic thiomethyldiamine)

Class: 9



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UN #: UN3082
Packing Group: III
Sea Transport (IMDG-Code/GGVSee) Proper Shipping Name: Environmentally hazardous substance, liquid, NOS (Aromatic thiomethyldiamine)
UN #: 3082
Class: 9
Packing Group: III
Marine Pollutant: yes
Special Provision(s): EmS No. 1 F-A, EmS No. 2 S-F

SECTION 15: REGULATORY INFORMATION

CERCLA Reportable Quantity This material does not contain any components with a CERCLA RQ.
SARA 304 Reportable Quantity This material does not contain any components with a Section 304 EHS RQ.

CHEMICAL INVENTORIES

US (TSCA): All components listed
CANADA (DSL): All components listed

FEDERAL REGULATIONS

CANADA: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification: Class D1B - Toxic Material
Class D2B - Skin sensitization

UNITED STATES: This SDS had been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200

SARA Title III: Section 302: No chemicals in this material are subject to the reporting requirements of SARA Title III Section 302. Section 313: This material does not contain any chemical components that exceed the threshold(de minimus) reporting levels established by SARA Title II Section 313. Section 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard.

STATE REGULATIONS

California
California Prop 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.



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SECTION 16: OTHER INFORMATION

HMIS Rating:

Health	Flammability	Physical Hazard	Personal Protection
2	1	0	X, E

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