

Date Revised: 5/4/2016

Supersedes:

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Five Star® Epoxy Novolac Coating/Component B **Product Name(s):**

Five Star® Epoxy Novolac Coating Non-Sag/Component B

Synonyms: Novolac Coating Component B Hardener

Product Use: For use with Novolac Coating and Novolac Coating Non-Sag

Component A.

To be used with specific Five Star® systems. Restrictions on Use:

Manufacturer/Supplier Five Star Products, Inc.

> 60 Parrot Drive Shelton, CT 06484

Phone #: 203-336-7900

CHEM-TEL 1-800-255-3924 **Emergency Phone #:**

(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 3

Skin Corrosion - Category 1 Eye Damage - Category 1

Sensitization - Respiratory, Category 1

Sensitization - Skin, Category 1

Label Elements/Hazard **Pictograms:**





Signal Word: Danger

Hazard Statements: Harmful if swallowed, H302

Toxic in contact with skin, H311

Causes severe skin burns and eye damage, H314

May cause an allergic skin reaction, H317 May cause respiratory irritation, H335

Precautionary

Do not breathe dust, fume, gas, mist, vapors, or spray, P260 **Statements/Prevention:**

Wash thoroughly after handling, P264

Do not eat, drink or smoke when using this product, P270 Contaminated work clothing should not be allowed out of the

workplace, P272

Wear protective gloves, protective clothing, eye protection and face

protection, P280

Wear respiratory protection, P284



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Response: If swallowed: Rinse mouth. Do NOT induce vomiting, P330, P331.

If on skin (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower, P361, P353.

If inhaled: Remove person to fresh air and keep comfortable for

breathing, P340.

If in eyes: Rinse cautiously with water for several minutes, P351. Remove contact lenses, if present and easy to do. Continue rinsing,

P338.

Immediately call a poison center or doctor, P310.

If skin irritation or rash occurs, P333: Get medical advice/attention,

P313.

If experiencing respiratory symptoms, P342: Call a poison center or doctor, P310. Wash contaminated clothing before reuse, P363.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with applicable regional,

national, and local laws and regulations.

Hazards Not Otherwise

Classified:

Not applicable

Ingredients with Unknown

Toxicity:

Some of this product mixture may contain ingredients of unknown

acute toxicity.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS					
Hazardous Ingredient(s)	Common Name/Synonyms	CAS No.	%		
Aromatic Amine	Trade Secret	Trade Secret	20 - 40		
Polyamine	Trade Secret	Trade Secret	10 - 30		
Aromatic Alcohol Mixture	Trade Secret	Trade Secret	25 - 50		
Aliphatic Amines	Trade Secret	Trade Secret	<5		

SECTION 4: FIRST AID MEASURES

Inhalation: If inhaled: Remove person to fresh air and keep comfortable for

breathing. If experiencing respiratory symptoms: Call a poison center

or doctor.

Acute and delayed symptoms and effects: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Signs/symptoms may include burning pain in the nose and throat, coughing, wheezing, shortness of breath and

pulmonary edema.

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.



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Acute and delayed symptoms and effects: Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea,

chemical burns, severe pain, tearing, ulcerations, significantly impaired

vision or complete loss of vision.

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. Wash contaminated clothing before reuse.

Acute and delayed symptoms and effects: Toxic in contact with skin. May cause an allergic skin reaction. Causes severe skin burns. Signs/symptoms may include localized redness, swelling, itching, intense pain, and blistering, ulceration, and tissue destruction.

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.

Acute and delayed symptoms and effects: Harmful if swallowed. Causes burns to nose, mouth, throat, and digestive tract. Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea, blood in the feces and/or vomitus may also be seen.

General Advice: In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible). First Aid responders should pay attention to self-protection and use

recommended protective clothing (chemical resistant gloves, splash

protection).

Note to Physicians: Symptoms may not appear immediately. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability and Explosion

Information: Not flammable or combustible by OSHA/WHMIS criteria.

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:

Do not use water jet. Product will float and can be reignited on the

surface of the water.

Products of Combustion: Oxides of carbon, oxides of nitrogen, ammonia.

Protection of Firefighters: TOXIC; inhalation, ingestion or skin contact with material may cause

severe injury or death. Contact with molten substance may cause severe burns to skin and eyes. Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Wear positive pressure self- contained breathing apparatus (SCBA). Wear chemical

protective clothing that is specifically recommended by the



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manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area in all

directions for at least 50 meters (150 feet). Stay upwind. Keep out of low areas. Ventilate enclosed areas. ELIMINATE all ignition sources (no

smoking, flares, sparks or flames in immediate area).

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 waterways, sewers, basements or confined areas.

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

Methods for Clean-Up: 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 the workplace. See Section 8 for

information on Personal Protective Equipment.

Storage: Store locked up. Store away from incompatible Materials. See Section

10 for information on Incompatible Materials. Keep out of the reach of

children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	CAS No.	ACGIH(PEL)	OSHA(TLV)
Aromatic Amine	Trade Secret	Not established	Not established
Polyamine	Trade Secret	Not established	Not established
Aromatic Alcohol Mixture	Trade Secret	Not established	Not established
Aliphatic Amines	Trade Secret	Not established	Not established

PEL: Permissible Exposure Limit TLV: Threshold Limit Value



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Engineering Controls: Not normally required.

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 protective gloves. Rubber or polyethylene material is

recommended. Consult manufacturer specifications for further

information.

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

should be worn.

Respiratory Protection: Wear respiratory protection. If engineering controls and ventilation are

not sufficient to control exposure to below the allowable limits then an

appropriate NIOSH/MSHA approved air-purifying respirator with

organic vapor cartridge, or self-contained breathing apparatus must be sued when oxygen concentrations are low or if airborne concentrations

exceed the limits of the air-purifying respirators.

General Hygiene Considerations:

Handle according to established industrial hygiene and safety

practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Clear to amber colored liquid; non sag – clear to amber gel	
Color:	Clear to amber	
Odor:	Strong, ammoniacal	
Odor Threshold:	Not Available	
Physical State:	Liquid	
pH:	Alkaline if water present	
Melting Point / Freezing Point:	Not available	
Initial Boiling Point:	Not available	
Boiling Point:	>222°C (432°F)	
Flash Point:	111°C (232°F)	
Evaporation Rate:	Not available.	
Flammability (solid, gas):	Not available.	
Lower Flammability Limit:	Not available.	
Upper Flammability Limit:	Not available.	
Vapor Pressure:	<2 mmHg@70°F	
Vapor Density:	> 1 (Air=1)	
Relative Density:	1.04 (Water=1)	



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Solubility:	Slightly soluble in water	
Partition Coefficient: n-Octanol/Water:	Not available.	
Auto-ignition Temperature:	Not available.	
Decomposition Temperature:	Not available.	
Viscosity:	400 - 800 cps; non sag not available	
Percent Volatile, wt.%:	0%	
VOC Content, wt.%:	0%	
Density:	1.04 g/ml	
Coefficient of Water/Oil Distribution:	Not available	

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Hazardous decomposition

byproducts: Oxides of carbon, oxides of nitrogen, ammonia.

Conditions to Avoid: Can auto-ignite in air at approximately 572°F (300°C)

Incompatible Materials: Epoxy resins under uncontrolled conditions, acid, oxidizing material,

halogenated, organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Acute Oral Toxicity: Aromatic Amine - LD50: 1,030 mg/kg - Species: Rat

Aromatic Alcohol - LD50: 1,230 mg/kg - Species: Rat

Inhalation: Aromatic Alcohol - LC50 (4h): >4.178 mg/l - Species: Rat

Acute Dermal Toxicity: Aromatic Amine - LD50: 1,840 mg/kg - Species: Rabbit

Aromatic Alcohol - LD50: >1,000 mg/kg - Species: Rabbit

Primary Irritant Effect

Irritant to skin and mucous membranes. On the Skin:

Primary Irritant Effect

Irritating effect. On the Eye:

Swallowing: Can cause abdominal irritation, nausea, vomiting, and diarrhea.

Additional Toxicological

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA, or Information:

ACGIH as of this date, greater or equal to 0.1%

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: All work practices must be aimed at eliminating environmental

contamination.

Aquatic Toxicity: This material is harmful to the environment.



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Toxicity to Fish: Aromatic Alcohol: LC50 (96h): 10 mg/l - Species: Bluegill sunfish

(Lepomis macrochirus)

Aromatic Alcohol: LC50 (96h): 460 mg/l - Species: Fathead minnow

(Pimephales promelas)

Toxicity to Algae: Aromatic Alcohol: IC50 (72h): 700 mg/l - Species: Algae

Persistence and

Degradability: The product is partially biodegradable. Significant residue remains.

Bio-accumulative Potential: Does not accumulate in organisms.

Mobility in Soil: No further relevant information available

Ecotoxical Effects

Toxic for fish. Due to mechanical actions of the product damages may Remark: occur. The declared action may be partly caused by lack of oxygen.

Additional Ecological

Information: No further relevant information available

General Notes: No further relevant information available

PBT Assessment: N/A **vPvB** Assessment: N/A

Other Adverse Effects: No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Recommendation: The generation of waste should be avoided or minimized wherever

> possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

> Care should be taken when handling emptied containers t h a t have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

> Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned

to licensed hazardous waste haulers for disposal.

ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT

PROPER AGENCIES.

Uncleaned Packaging: Empty containers may contain residue and may be dangerous. Do not

> attempt to refill or clean without proper instructions. Empty drums should be drained and stored safely for reconditioning or recycling.



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Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

US DEPARTMENT of

TRANSPORTION (DOT) Proper

Shipping Name:

UN2735, AMINES, LIQUID, CORROSIVE, NOS (AROMATIC

AMINE/POLYAMINE MIXTURE) 8, PG III

Class:

UN #: UN2735

Packing Group: III

Air Transport: ICAO-

IATA/DGR (Cargo) Proper

Shipping Name:

UN2735, AMINES, LIQUID, CORROSIVE, NOS (AROMATIC

AMINE/POLYAMINE MIXTURE) 8, PG III

Class: 8

UN#: UN2735

Packing Group: III

Sea Transport: (IMDG-

Code/GGVSee):

UN2735, AMINES, LIQUID, CORROSIVE, NOS (AROMATIC

AMINE/POLYAMINE MIXTURE) 8, PG III

Class: 8

UN #: UN2735

Packing Group: III

Marine Pollutant: Yes

CANADA Transportation of

Dangerous Goods (TDG)
Proper Shipping Name:

UN2735, AMINES, LIQUID, CORROSIVE, NOS (AROMATIC

AMINE/POLYAMINE MIXTURE) 8, PG III

Class: 8

UN #: UN2735

Packing Group: III

SECTION 15: REGULATORY INFORMATION

CHEMICAL INVENTORIES

US (TSCA): The components of this product are in compliance with the chemical

notification requirements of TSCA.

CANADA (DSL): The components of this product are in compliance with the chemical

notification requirements of NSN Regulations under CEPA, 1999.

FEDERAL REGULATIONS

CANADA: n/a

WHMIS Classification: n/a



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UNITED STATES: This SDS has been prepared to meet the US OSHA Hazard

Communication Standard, 29 CFR 1910.1200

SARA Title III: No components are listed.

STATE REGULATIONS

Massachusetts:

US Massachusetts Commonwealth's Right-to-Know Las (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

New Jersey:

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Pennsylvania:

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Code Chap. 301-323)

California This product does not contain chemicals known to the State of California **California Prop 65:** to be Carcinogenic.

SECTION 16: OTHER INFORMATION

Disclaimer: This information is furnished without warranty of any kind, expressed or implied. Five Star Products, Inc. bases the information and

recommendations in this document on data believed to be current and

accurate.

HMIS (Hazardous Material Information System:

Health	Flammability	Reactivity	Personal Protection
3	1	1	Е