



Safety Data Sheet

Date Revised: 08/24/2022

Supersedes: 04/14/2021

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star® Epoxy Novolac Primer / Component B Hardener

Synonyms: Not Applicable

Product Use: For use with associated product resin Five Star® Epoxy Novolac Primer Component A

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

Manufacturer/Supplier: Five Star Products, Inc.
2 Enterprise Drive, Suite 303
Shelton, CT 06484 USA

Phone #: 203-336-7900

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

SECTION 2: HAZARD(S) IDENTIFICATION-GHS INFORMATION

Classification: Skin corrosion/irritation, Category 1
Sensitization, skin, Category 1
Serious eye damage/eye irritation, Category 1
Sensitization, respiratory, Category 1
Specific target organ toxicity, single exposure, Category 3 respiratory tract irritation
Reproductive toxicity, Category 2
STOT, Single Exposure, Category 1
Specific target organ toxicity, repeated exposure, Category 1

Label Elements/Hazard Pictograms:



Signal Word: Danger

Hazard Statements: Causes severe skin burns and eye damage. H314
May cause an allergic skin reaction. H317
Causes serious eye damage. H318
May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334
May cause respiratory irritation. H335
May cause drowsiness or dizziness. H336
Suspected of damaging fertility or the unborn child. H361
Causes damage to organs. H370
Causes damage to organs through prolonged or repeated exposure. H372



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Precautionary Statements/Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response:

IF ON SKIN: Gently wash with plenty of soap and water. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. For specific treatment see Section 4 of this SDS. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage:

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified (HNOC):

None known.

Supplemental Information:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Mixtures			
Chemical Name	Common Name/Synonyms	CAS No.	% wt/wt
POLYAMIDOAMINE	Not Available	Mixture	55 - 65
PROPRIETARY INGREDIENTS	Not Available	Not Available	20 - 30
ALCOHOLS, C9-11, ETHOXYLATED	Not Available	68439-46-3	15 - 20
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	Not Available	90-72-2	1 - < 3



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SECTION 4: FIRST AID MEASURES

Inhalation:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately. Call a physician if symptoms develop or persist.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Call a physician or poison control center immediately.
Skin Contact:	Remove and isolate contaminated clothing and shoes. Remove contaminated clothing. Immediately flush skin with plenty of water. Wash off with soap and plenty of water. Wash off with soap and water. Rinse skin with water/shower. Get medical attention immediately. Get medical attention if irritation develops and persists. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
Ingestion:	Rinse mouth. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If ingestion of a large amount does occur, call a poison control center immediately. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms/effects, acute and delayed	Not available.
Indication of immediate medical attention and special treatment needed	Symptoms may be delayed.
General Advice:	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Wash contaminated clothing before reuse.



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SECTION 5: FIRE-FIGHTING MEASURES

MEANS OF EXTINCTION

Suitable Extinguishing Media: Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Not available.

Specific hazards arising from the chemical: Not applicable.

Special protective equipment and precautions for firefighters: Not available.

Firefighting equipment/instructions: In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause environmental damage.

Specific methods: In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep upwind. Keep out of low areas. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Wear appropriate protective equipment and clothing during clean-up. Ventilate closed spaces before entering them. Do not touch or walk through spilled material.

Methods and materials for containment and cleaning up: Extinguish all flames in the vicinity.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Collect spillage. Following product recovery, flush area with water. Prevent product from entering drains. Do not allow material to contaminate ground water system.
Small Spills: Clean surface thoroughly to remove residual contamination.
Never return spills in original containers for re-use. Absorb spill with vermiculite or other inert material.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water.



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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Do not get this material on clothing. Wear personal protective equipment. Do not use in areas without adequate ventilation. Wear positive pressure self-contained breathing apparatus (SCBA). When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains. Handle and open container with care. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities: Store in a well-ventilated place. Keep container tightly closed. Keep container dry. Store in a closed container away from incompatible materials. Keep out of the reach of children. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Not available.

Biological Limit Values: No biological exposure limits noted for the ingredient(s).

Exposure Guidelines: No exposure standards allocated.

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. General ventilation normally adequate.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear goggles/face shield.

Skin/Hand Protection: Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Body Protection: Wear suitable protective clothing. Chemical resistant gloves. Wear appropriate chemical resistant clothing.

Respiratory Protection: Avoid breathing dust/fume/gas/mist/vapors/spray. If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Thermal Hazards: Not available.

General Hygiene Considerations: When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Wash hands after handling and before eating. Keep away from food and drink. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Liquid
Form:	Liquid
Color:	Honey to amber
Odor:	Ammoniacal. Amine-like.
Odor Threshold:	Not Available
Physical State:	Liquid
pH:	Alkaline
Melting Point / Freezing Point:	Not Available
Initial Boiling Point and Range:	Not Available
Flash Point:	Not Available
Evaporation Rate:	Not Available
Flammability (solid, gas):	Not Available
Upper/Lower Flammability or Explosive Limits	
Flammability Limit – Lower (%)	Not Available
Flammability Limit – Upper (%)	Not Available
Explosive Limit – Lower (%)	Not Available
Explosive Limit – Upper (%)	Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density:	0.96 g/cc
Solubility (Water):	Partial
Partition Coefficient: n-Octanol/Water:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	Not Available
Specific Gravity:	0.96



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SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not available.
Chemical Stability:	Stable at normal conditions.
Possibility of Hazardous Reactions:	Not available.
Conditions to Avoid:	Not available.
Incompatible Materials:	Peroxides. Strong oxidizing agents. This product may react with strong acids. This product may react with strong alkalis. Chlorine.
Hazardous Decomposition Products:	If product is burned hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:	Toxic if inhaled. May cause damage to organs by inhalation. Causes damage to organs through prolonged or repeated exposure by inhalation.
Skin Contact:	Causes skin irritation. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes damage to organs by skin contact. May cause damage to organs through prolonged or repeated exposure by skin contact.
Eye Contact:	Causes serious eye damage.
Ingestion:	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics:	Direct contact with eyes may cause temporary irritation.
Information on Toxicological Effects:	
Acute Toxicity:	Not available.
Skin Corrosion/Irritation:	Causes severe skin burns and eye damage.
Serious Eye Damage/Eye Irritation:	Causes serious eye damage.
Respiratory or Skin Sensitization:	
Respiratory sensitization:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitization:	Causes severe skin burns. Corrosive to skin and eyes.
Germ Cell Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.



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Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product contains crystalline silica. Silica is a known carcinogen; however, in this encapsulated form the normal routes of exposure are unavailable.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure: Skin Lung Nasal mucous membranes. Eyes. Respiratory tract.

Specific target organ toxicity - repeated exposure: Respiratory system. Skin.

Aspiration Hazard: Not available.

Chronic Effects: Prolonged inhalation may be harmful.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Contains a substance which causes risk of hazardous effects to the environment.

Product			
Epoxy Novolac Primer Component B Hardener			
Aquatic			
Crustacea	EC50	Daphnia	32.2587 mg/l, 48 hours estimated
Fish	LC50	Fish	42.4971 mg/l, 96 hours estimated
Components		Species	Test Results
ALCOHOLS, C9-11, ETHOXYLATED (CAS 68439-46-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	2.9 - 8.5 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	6 - 12 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and Degradability: Not available.

Bio-accumulative Potential: Not available.



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Mobility in Soil: Not available.
Other Adverse Effects: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products: Not applicable. Dispose of in accordance with local regulations.
Contaminated packaging: Offer rinsed packaging material to local recycling facilities.

SECTION 14: TRANSPORT INFORMATION

US DEPARTMENT of TRANSPORTATION (DOT) Proper Shipping Name: UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (POLYAMIDOAMINE)
Class: 8
UN #: 2735
Packing Group: III
Special precautions for user: Not available.
Packaging exceptions: 154
Packaging non-bulk: 203
Packaging bulk: 241

INTERNATIONAL AIR TRANSPORTATION Proper Shipping Name (ICAO/IATA): UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (POLYAMIDOAMINE)
Class: 8
UN #: 2735
Packing Group: III
Environmental Hazards: No.
ERG Code: 8L
Special precautions for user: Not available.

Other Information:

Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.



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WATER TRANSPORTATION

Proper Shipping Name (IMO/IMDG): UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (POLYAMIDOAMINE)

Class: 8

UN#: 2735

Packing Group: III

Environmental Hazards:

Marine Pollutant: No.

EmS: F-A, S-B

Special precautions for user: Not available.

CANADA Transportation of Dangerous Goods (TDG) Proper Shipping Name: UN2735, AMINES, LIQUID, CORROSIVE, NOS (POLYAMIDOAMINE) 8, PG III

Class: 8

UN #: 2735

Packing Group: III

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not established.

DOT:



IATA; IMDG





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SECTION 15: REGULATORY INFORMATION

US Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 All components are on the U.S. EPA TSCA Inventory List.
 CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.

SARA 304 Emergency Release Notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052): Not regulated.

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

WHMIS Classification: Class D1B - Toxic Material.
 Class D2A - Respiratory sensitization.
 Class D2B - Skin sensitization.
 Class E - Corrosive Material.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely Hazardous Substance: Not listed.
Classified Hazard Categories: Skin corrosion or irritation
 Serious eye damage or eye irritation
 Respiratory or skin sensitization
 Reproductive toxicity
 Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting) Not regulated.

Other Federal Regulations:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Safe Drinking Water Act (SDWA): Not regulated.



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US STATE REGULATIONS

California Proposition 65	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
Massachusetts	US Massachusetts Commonwealth's Right-to-Know Law (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)

International Inventories

Country(s) or Region:	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



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SECTION 16: OTHER INFORMATION				
HMIS (Hazardous Material Identification System) Ratings:	Health	Flammability	Physical Hazard	Personal Protection
		3	1	0

References:

ACGIH
 EPA: AQUIRE database
 NLM: Hazardous Substances Data Base
 US. IARC Monographs on Occupational Exposures to Chemical Agents
 HSDB® - Hazardous Substances Data Bank
 IARC Monographs. Overall Evaluation of Carcinogenicity
 National Toxicology Program (NTP) Report on Carcinogens
 ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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