

Date Revised: 9/3/2015

Supersedes:

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Five Star® Injection Gel / Component B **Product Name(s):**

Five Star® Underwater Epoxy Gel / Component B

Synonyms: N/A

Product Use: Crack and concrete surface repair; sealing

Restrictions on Use: Use with Injection Gel Component A

Use with Underwater Epoxy Gel 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: Skin Corrosion/Irritation, Category 1B

> Acute Toxicity, Category 4 Sensitization - Skin, Category 1

Label Elements/Hazard

Pictograms:





Signal Word: Danger

Hazard Statements: Causes severe skin burns and eye damage, H314.

Harmful it inhaled, H332.

May cause an allergic skin reaction, H317

Precautionary

If medical device is needed, have product container or label at hand. **Statements/Prevention:**

Keep out of reach of children.

Read label before use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Response: If on SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

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

treatment (see on this label).

Storage: Store locked up.



Date Revised: 9/3/2015

Supersedes:

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

national, and international regulations.

Classification System

NFPA ratings (scale 0-4):



HMIS ratings (scale 0-4):



PBT Assessment: N/A

vPvB Assessment: N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Dangerous components	CAS No.	% wt/wt	
m-phenylenebis (methylamine)	1477-55-0	10-25	
cyclohex-1, 2-ylenediamine	694-83-7	<9	
4-nonylphenol, branched	84852-15-3	10-30	

SECTION 4: FIRST AID MEASURES

General Information: Immediately remove any clothing soiled by the product.

Inhalation: If inhaled: Supply fresh air and be sure to call for a doctor. In case of

unconsciousness, place patient stably in side position for

transportation.

Eye Contact: If in eyes: Rinse opened eye for several minutes under running water.

Then consult a doctor.

Skin Contact: In skin irritation continues, consult a doctor.

Ingestion: If swallowed: Drink copious amounts of water and provide fresh air.

Immediately call a doctor. Seek medical treatment.

Most important symptoms and

effects, both acute and

delayed: No further relevant information available.



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Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

MEANS OF EXTINCTION

Suitable Extinguishing Media: CO₂, extinguishing powder or water spray. Fight larger fires with water

spray or alcohol resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available.

Protection of Firefighters: Because fire may produce thermal decomposition products, wear a

self-contained breathing apparatus (SCBA) with a full face piece

operated in pressure-demand or positive-pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental Precautions: Do not allow product to reach sewage system or any water course.

Methods and Material for Containment and Clean up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure

adequate ventilation.

Reference to other sections: See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Wear appropriate personal protective clothing to prevent eye and skin

contact. Avoid breathing vapors or mists of this product. Use with

adequate ventilation. Do not take internally.

Information about protection

against Explosions and Fires: No special measure required.

Storage: Store in a cool dry location. Store away from incompatible materials.

Keep receptacle tightly sealed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about

design of technical systems: No further data.



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Components with limit values that require monitoring at the workplace:

1477-55-0 m-phenylenebis (methylamine)			
REL	Ceiling limit value: 0.1 mg/m³, Skin		
TLV	Ceiling limit value: 0.1 mg/m³, Skin		
124-09-4	hexamethylenediamine		
124-09-4 TLV	hexamethylenediamine Long-term value: 2.3 mg/m³, 0.5 ppm		

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear appropriate eye protection to prevent eye contact.

Hand Protection: Wear protective gloves. The glove material has to be impermeable and

resistant to the product / the substance / the preparation.

Material of Gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality material and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of Glove Material: The exact break through time has to be found out by the manufacturer of the protective gloves and

has to be observed.

Breathing Equipment: Use suitable respiratory protective device when high concentrations are

present. In case of brief exposure or low pollution use respiratory filter

device. In case of intensive or longer exposure use respiratory

protective device that is independent of circulating air.

General Protective and Hygiene Considerations:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aerosols. Avoid contact

with the eyes and skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Liquid	
Color:	Grey	
Odor:	Distinctive	
Odor Threshold:	Not determined	
pH value:	Not determined	
Melting Point / Melting Range:	Undetermined	
Boiling Point / Boiling Range:	Undetermined	
Flash Point:	>94°C (>201°F)	
Flammability (solid, gaseous):	N/A	
Ignition Temperature:	275.0°C (527°F)	



Date Revised: 9/3/2015

Supersedes:

Decomposition Temperature:	Not determined
Auto Igniting:	Product is not self-igniting.
Danger of Explosion:	Product does not present an explosion hazard.
Explosion Limit – Lower:	0.5 Vol%
Explosion Limit – Upper:	13.0 Vol%
Vapor Pressure at 20°C (68°F):	0.1 hPa
Density at 20°C (68°F):	1.776 g/cm³ (14.821 lbs/gal)
Relative Density:	Not determined
Vapor Density:	Not determined
Evaporation Rate:	Not determined
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition Coefficient (n-octanol/water):	Not determined
Viscosity, Dynamic:	Not determined
Viscosity, Kinematic:	Not determined
Organic Solvents:	12.0%
Solids Content:	100.0%
Other information:	No further relevant information available
Volatile Organic Compounds:	Not determined

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous

reactions: No dangerous reactions known.

Conditions to Avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition

products: No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity



Date Revised: 9/3/2015

Supersedes:

LD/LC50 values that are relevant for classification:

1477-55-0 m-phenylenebis (methylamine)			
Oral	LD50	1040 mg/kg (rat)	
Inhalative	LC50/4 h	2.4 mg/l (rat)	

124-09-4 hexamethylenediamine LD50 Oral 750 mg/kg (rat) Dermal LD50 1110 mg/kg (rabbit)

Primary Irritant Effect

On the Skin: Caustic effect on skin and mucous membranes.

Primary Irritant Effect

On the Eve: Strong caustic effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological

The product shows the following dangers according to internally information:

approved calculation methods for preparations:

Corrosive Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and

to the danger of perforation of esophagus and stomach.

Carcinogenic Categories

IARC (Int'l Agency for **Research on Cancer):**

None of the ingredients are listed.

NTP (National Toxicology

Program): None of the ingredients are listed.

OSHA-Ca: None of the ingredients are listed.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity: No further relevant information available.

Persistence and

Degradability: No further relevant information available. **Bio-accumulative Potential:** No further relevant information available.

No further relevant information available. **Mobility in Soil:**

Additional Ecological Information

General Notes: Water hazard class 3 (self-assessment): Extremely hazardous for

Do not allow product to reach ground water, water course or sewage

system, even in small quantities.

Water hazard class 1 (self-assessment): Slightly hazardous for water.



Date Revised: 9/3/2015

Supersedes:

Must not reach bodies of water or drainage ditch undiluted or

unneutralized.

PBT Assessment: N/A

vPvB Assessment: N/A

Other Adverse Effects: No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Recommendation: Must not be disposed of as normal garbage. Do not allow product to

reach sewage system. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal and

provincial environmental regulations.

Uncleaned Packaging

Recommendation: Disposal must be made according to Federal, State & Local regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number

DOT, ADR, IMDG, IATA: UN1760

UN Proper Shipping Name

DOT: Corrosive liquids, n.o.s. (nonylphenol)

ADR: 1760 Corrosive liquids, n.o.s. (nonylphenol

IMDG: Corrosive Liquid, n.o.s. (nonylphenol), MARINE POLLUTANT

IATA: Corrosive Liquid, n.o.s. (nonylphenol)

Transport Hazard Class(es)

DOT, ADR, IATA, IMDG Class: 8, Corrosive substances

DOT, ADR, IATA, IMDG Label: 8

Packing Group: III

DOT, ADR, IMDG, IATA

Environmental Hazards

Marine Pollutant: Yes

Symbol (fish and tree)

Special precautions for user: Warning: Corrosive substances

Danger code (Kemler): 886

EMS Number: F-A, S-B



Date Revised: 9/3/2015

Supersedes:

Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code: Not Applicable

Transport/Additional Information

DOT Remarks: Add "Marine Pollutant" to end of proper shipping name if shipping in a

bulk container (>119 gallons).

Special marking with the symbol (fish and tree).

ADR Excepted quantities

(EQ):

Code:E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

U.S. Domestic Ground

Shipments:

Same as listed for Standard Shipments above.

U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:

Same as listed for Standard Shipments above.

Emergency Response Guide

(ERG) Number:

153

IMDG Limited quantities (LQ): 5L

IMDG Excepted quantities

(EQ):

Code:E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN1760, Corrosive liquids, n.o.s. (nonylphenol), 8, III

SECTION 15: REGULATORY INFORMATION

SARA

Section 355 (Extremely **Hazardous Substances):**

None of the ingredients are listed.

Section 313 (Specific toxic

chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances

Control Act):

99999-99-9, Non-hazardous material

1477-55-0, m-phenylenebis (methylamine) 694-83-7, cyclohex-1, 2-ylenediamine

124-09-4, hexamethylenediamine 110-60-1, tetramethylenediamine 156-87-6, 3-aminopropan-1-ol

15520-10-2, 2-methylpentane-1, 5-diamine

CA Proposition 65

Chemicals known to the State of California to cause

cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for

females:

None of the ingredients are listed.



Date Revised: 9/3/2015

Supersedes:

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenicity Categories

EPA: None of the ingredients are listed.

TLV: None of the ingredients are listed.

MAK (German Maximum

Workplace Concentration): None of the ingredients are listed.

NIOSH-Ca: None of the ingredients are listed.

National regulations

Water hazard class: Water hazard class 3 (self-assessment): Extremely hazardous for water.

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

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.