



Safety Data Sheet

Date Revised: 02/28/2023

Supersedes: 03/07/2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade Name Five Star® DP Epoxy Grout High Flow / Component A Resin
formerly DP Epoxy Grout 201 / Component A Resin

Registration number -

Synonyms Epoxy resin, Component A

Issue Date 03-07-2022

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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 Five Star Products, Inc.
2 Enterprise Drive
Suite 303
Shelton, CT 06484 U.S.A.
00-1-203-336-7900

1.4 Emergency telephone number: VelocityEHS
1-813-248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture: The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation
Skin sensitisation	Category 1A	H317 - May cause an allergic skin reaction
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation
Germ cell mutagenicity (oral)	Category 2	H341 - Suspected of causing genetic defects by ingestion

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic 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
Contains:

2,3-Epoxypropyl neodecanoate, 2-Ethylhexyl glycidyl ether, Phenol, polymer with formaldehyde, glycidyl ether, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight <= 700)

Hazard Pictograms

Signal Word

Warning

Hazard Statements

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects by ingestion
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements
Prevention

P201	Obtain special instructions before use
P261	Avoid breathing mist/vapours
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection

Response

P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage

Storage

Not assigned

Disposal

Not assigned

Supplemental information on the label

EUH205 - Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards:

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation(EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients
3.2 Mixtures
General information

Chemical Name	%	CAS-No./EC No.	REACH Registration No.	Index No.	Notes
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight <= 700)	≤ 90	25068-38-6 500-033-5	-	603-074- 00-8	-
Classification	Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Aquatic Chronic 2; H411				
2,3-Epoxypropyl neodecanoate	≤ 20	26761-45-5 247-979-2	-	-	-
Classification	Skin Sens. 1;H317, Muta. 2;H341, Aquatic Chronic 2;H411				
2-Ethylhexyl glycidyl ether	≤ 20	2461-15-6 219-553-6	-	-	-
Classification	Skin Irrit. 2;H315, Skin Sens. 1A;H317				
Phenol, polymer with formaldehyde, glycidyl ether	≤ 20	28064-14-4 608-164-0	-	-	-
Classification	Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Aquatic Chronic 2;H411				
Benzyl alcohol	≤ 10	100-51-6 202-859-9	-	603-057- 00-5	-
Classification	Acute Tox. 4;H302, Acute Tox. 4;H332, Skin Irrit. 2;H315, Eye Irrit 2;H319				

Composition Comments:

The full text for all H-statements is displayed in section 16.
All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.

SECTION 4: First aid measures
General information:

IF exposed or concerned: Get medical advice/attention. 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. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

4.1 Description of first aid measures
Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.



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Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2 Most important symptoms and effects, both acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
4.3 Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	Will burn if involved in a fire.
5.1 Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Powder. Carbon dioxide (CO2).
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	During fire, hazardous combustion products are released that may include: Carbon oxides. Formaldehyde. Chlorine compounds.
5.3 Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel	Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
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For emergency responders	Keep unnecessary personnel away. Avoid breathing mist/vapours. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up.
6.2 Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3 Methods and material for containment and cleaning up	Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Retain and dispose of contaminated wash water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.
6.4 Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Persons with epoxy allergy should not work with this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
7.2 Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS)
7.3 Specific end use(s)	Grouting and repair.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
Derived no effect levels (DNELs)	Not available



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Predicted no effect concentrations (PNECs)

Not available

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/Face Protection

Wear approved chemical safety goggles. Face shield is recommended. Eye protection should meet standard EN 166.

Skin Protection

Hand protection

Wear suitable gloves tested to EN374. Nitrile or butyl rubber gloves are recommended. Use gloves with breakthrough time of 240 minutes. Minimum glove thickness > 0.4 mm. Other suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. Use filter type AB P2 according to EN 14387. Check with respiratory protective equipment suppliers

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
Appearance	
Physical state	Liquid
Form	Clear liquid
Colour	Amber
Odour	Slight aromatic
Odour Threshold	Not available
pH	Not applicable
Melting Point / Freezing Point	Not available
Initial Boiling Point and Boiling Range	Not available
Flash Point	> 93.4 °C (> 200.12 °F)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Explosive limit – lower (%)	Not available
Explosive limit – upper (%)	Not available
Vapour Pressure	1.33 mbar
Vapour Density	Not available
Relative Density	1.05 - 1.15 (Water=1)
Solubility (ies)	
Solubility (water)	Slightly soluble in water. (0.1% - < 1%)
Partition Coefficient (n-Octanol/Water)	Not applicable, product is a mixture
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Explosive Properties	Not explosive
Oxidising properties	Not oxidising

9.2 Other information

Kinematic viscosity 600 - 1100 mm²/s (40 °C (104 °F))



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SECTION 10: Stability and reactivity

10.1 Reactivity	The product is stable and non-reactive under normal conditions of use, storage, and transport.
10.2 Chemical stability	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	Contact with incompatible materials.
10.5 Incompatible materials	Strong oxidising agents
10.6 Hazardous decomposition products	Decomposition is not expected under normal conditions of use and storage. For hazardous combustion products, see section 5.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Suspected of causing genetic defects by ingestion.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.
Dermatitis. Rash. Prolonged exposure may cause chronic effects.

11.1 Information on toxicological effects

Acute Toxicity Not expected to be acutely toxic.

Components	Species	Test Results
Benzyl alcohol (CAS 100-51-6)		
Acute Dermal LD50	Rabbit	2000 mg/kg
Acute Inhalation Aerosol LC50	Rat	> 4.178 mg/l, 4 Hours
Acute Oral LD50	Rat	1610 mg/kg
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight <= 700) (CAS 25068-38-6)		
Acute Dermal LD50	Rat	> 2000 mg/kg
Acute Oral LD50	Rat	15000 mg/kg

Skin corrosion/irritation Causes skin irritation.



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Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	No information available.

SECTION 12: Ecological information

12.1 Toxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
Benzyl alcohol (CAS 100-51-6)		
Aquatic Acute Algae EC50	Algae	700 mg/l, 72 Hours
Aquatic Acute Crustacea EC50	Daphnia magna	202 mg/l, 48 Hours
Aquatic Acute Fish LC50	Fathead minnow (Pimephales promelas)	460 mg/l, 96 hours

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

12.3 Bio-accumulative Potential

Partition coefficient n-octanol/water (log Kow) Not applicable, product is a mixture.

Benzyl alcohol (CAS 100-51-6) 1.1

Bioconcentration factor (BCF) Not available.

12.4 Mobility in soil Expected to have low mobility in soil.

12.5 Results of PBT and vPvB assessment This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6 Other adverse effects No data available.



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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.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods / information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special Precautions	Dispose in accordance with all applicable regulations.

SECTION 14: TRANSPORT INFORMATION

ADR

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight <= 700), 2,3-Epoxypropyl neodecanoate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary Risk	-
Label(s)	9
Hazard No. (ADR)	90
Tunnel restriction code	E
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN3082
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14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight <= 700), 2,3-Epoxypropyl neodecanoate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary Risk	-
Label(s)	9
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight <= 700), 2,3-Epoxypropyl neodecanoate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary Risk	-
Label(s)	9
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN3082
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight <= 700), 2,3-Epoxypropyl neodecanoate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary Risk	-
Label(s)	9
14.4. Packing group	III



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14.5. Environmental hazards

Yes

ERG Code

9L

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

IMDG

14.1. UN number

UN3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight <= 700), 2,3-Epoxypropyl neodecanoate)

14.3. Transport hazard class(es)

Class 9

Subsidiary Risk -

Label (s) 9

Hazard No. (ADR) 90

Tunnel restriction code E

14.4. Packing group III

14.5. Environmental hazards

Marine pollutant Yes

EmS F-A, S-F

14.4. Packing group

14.5. Environmental hazards

Read safety instructions, SDS and emergency procedures before handling.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Retained direct EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.



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Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

This product is classified and labelled in accordance with the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended.

New or expectant mothers should not work with this product if there is a risk due to exposure, in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended.

Follow the requirements of the Control of Substances Hazardous to Health Regulations 2002 [SI 2002/2677], as amended, when using this material.



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15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of Abbreviations

ADN	European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS	Chemical Abstract Service
CEN	European Committee for Standardization
IATA	International Air Transport Association
IBC Code	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemical
IMDG	International Maritime Dangerous Goods
MARPOL	International Convention for the Prevention of Pollution from Ships
PBT	Persistent, bioaccumulative and toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very persistent and very bioaccumulative

References

ACGIH	Documentation of the Threshold Limit Values and Biological Exposure Indices
EPA	AQUIRE database
HSDB®	Hazardous Substances Data Bank

IARC Monographs Overall Evaluation of Carcinogenicity

NTP National Toxicology Program Report on Carcinogens

NLM Hazardous Substances Data Base

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H341 Suspected of causing genetic defects.
H411 Toxic to aquatic life with long lasting effects.



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Training information

Follow training instructions when handling this material.

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.