Safety Data Sheet

Section 1 – Chemical Product and Company Identification

1.1 Product identifier:

Product Name: E-Cast 207-1 Part A
Product Code: EC207-1A
Effective Date: 7/22/2015
Revision Date: 6/23/2024

1.2 Recommended use and restrictions on use:

Product Use: Epoxy Resin
Restrictions: Not available.

1.3 Name, address, and telephone number of the chemical manufacturer:

Ellsworth Adhesives
W129 N10825 Washington Dr.
Germantown, WI 53022-8202
(877) 454-9224

1.4 Emergency telephone number:

24 Hr. Emergency CHEMTREC # 1-800-424-9300

Section 2 – Hazards Identification

2.1 Classification according to 29 CFR §1910.1200 (d):

Classification: Skin corrosion/irritation - Category 2 (H315)
Eye damage/irritation - Category 2A (H319)
Skin sensitization - Category 1 (H317)
Hazardous to the aquatic environment - acute - Category 2 (H401)
Hazardous to the aquatic environment - chronic - Category 2 (H411)

2.2 Label elements according to 29 CFR §1910.1200 (f):

Hazard Symbols:

Signal Words: Warning

Hazard Statements: H315: Causes skin irritation
H319: Causes serious eye irritation
H317: May cause an allergic skin reaction
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
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/face protection.

Response: P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P391: Collect spillage.

Storage: No statement required

Disposal: P501: Dispose of contents in accordance with all local, regional, national and international regulations.

2.3 Hazards not otherwise classified in the classification process:
None known

2.4 Ingredients (Present at ≥ 1%) of unknown toxicity:
None

2.5 Supplemental Information:
If product is in liquid or cured (solid) form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

Section 3 – Composition/Information on Ingredients

3.1.1 Hazardous ingredients(s)

Chemical Name	CAS NO.	% (by wt.)
Epoxy Resin (Diglycidyl Ether of Bis-Phenol A)	25068-38-6	45.0 – 70.0 %
2-Propenoic acid, 2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]-1,3- propanediyl ester	4986-89-4	7.0 – 13.0 %
2-Propenoic acid, 2-(hydroxymethyl)-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	3524-68-3	5.0 – 10.0 %
2-Propenoic acid, 1,6-hexanediyl ester	13048-33-4	1.0 – 5.0 %
Dipentaerythritol pentaacrylate esters (DPEDPA)	60506-81-2	5.0 – 10.0 %

3.1.2 Non-hazardous ingredient(s)
Remaining components are non-hazardous and/or present at amounts below reportable limits.

3.2 Trade secrets (if applicable):
* Designates a specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4 – First Aid Measures

4.1 Description of first aid measures

Eyes: Immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of entire eye surface and lids with water. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Skin: Remove contaminated clothing. Wipe off excess material from exposed area. Flush exposed area with water. Wash area with soap and water. Continue to rinse for at least 10 minutes. If skin irritation or rash occurs, get medical attention. Do not reuse clothing until clean. Contaminated leather articles including shoes cannot be cleaned and should be discarded.

Inhalation: Move victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if victim feels unwell. If victim is unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie belt or waistband.

Ingestion: Wash mouth out with water. If victim is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep victim's head low so that vomit does not enter the lungs. Call Poison Center or get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed:
No data available

4.3 Indication of any immediate medical attention and special treatment needed:
No data available

Section 5 – Fire-Fighting Measures

5.1 Suitable extinguishing media:
Use dry chemical, CO_2, water spray (fog) or foam.

5.2 Specific hazards arising from the product:
If heated, a pressure increase will occur and the container may burst.

5.3 Special protective equipment and precautions for fire-fighters:
Use standard fire-fighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:
No action should be taken involving any personal risk or by personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.2 Methods and materials for containment and cleaning up:

Small spill: Stop leak if it is possible to do without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of waste with a licensed waste disposal contractor.
Large spill: Stop leak if it is possible to do without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Section 7 – Handling and Storage

7.1 Precautions for safe handling:

Put on appropriate personal protective equipment (see section 8 of SDS). Individuals with a history of skin sensitization should not be employed in any process in which this product is used. Do not get in eyes, on skin or on clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material. Keep container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities:

Protect from temperatures below: 32° F (0° C)
Protect from temperatures above: 100° F (38° C)

Store in accordance with local regulations. Keep away from open flames, hot surfaces and sources of ignition. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8 – Exposure Controls/Personal Protection

8.1 Exposure Limits:

Chemical Name	CAS NO.	Limit
Carbon Black	1333-86-4	ACGIH TLV TWA (inhalable fraction) 3 mg/m3
Silicon dioxide, chemically prepared	112945-52-5	OSHA PEL 6 mg/m3
Titanium Dioxide	13463-37-7	ACGIH TLV TWA 10 mg/m3
Aluminium Oxide	1344-28-1	ACGIH TLV TWA (respirable dust) 1 mg/m3
Propylidynetrimethanol	77-99-6	OSHA PEL TWA 0.56 mg/m3
Talc	14807-96-6	ACGIH TLV TWA 2 mg/m3
Quartz	14808-60-7	ACGIH TLV TWA (respirable dust) 0.025 mg/m3
1,2,4-trimethylbenzene	95-63-6	ACGIH TLV TWA 25 ppm
2,6-dimethyl-4-Heptanone	108-83-8	ACGIH TLV TWA 25 ppm
Naphtha, petroleum,hydrodesulfurized heavy	64742-82-1	ACGIH TLV TWA 100 ppm
Xylene	1330-20-7	ACGIH TLV TWA 100 ppm
Ethyl benzene (component of Xylene)	100-41-4	ACGIH TLV TWA 20 ppm
Isobutanol	78-83-1	ACGIH TLV TWA 50 ppm
2-Propenoic acid, 2-(hydroxymethyl)-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	3524-68-3	US WEEL 1 mg/m3 0.082 ppm
2-Propenoic acid, 1,6-hexanediyl ester	13048-33-4	US WEEL 1 mg/m3 0.11 ppm
Glycerine	56-81-5	OSHA PEL TWA 5 mg/m3

8.2 Engineering Controls:

Ventilation: Good general mechanical ventilation and local exhaust.

8.3 Personal Protective Equipment:

Eye Protection: Wear splash resistant safety goggles.
Skin Protection: Wear impervious gloves and other clothing to prevent contact.
Respirators: Organic vapor respirator if adequate ventilation is not present. (National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors recommended.)
Hygienic Practices: Wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling and storage areas. Food or beverages should not be consumed near where this product is stored. Remove and wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9 – Physical and Chemical Properties

Appearance ..... Viscous Liquid
Color ..... Gray
Odor ..... Slight, Ether-like
Odor Threshold ..... Not Established
pH ..... Not Established
Melting Point/Freezing Point ..... Not Established
Boiling Point ..... Not Established
Flash Point ..... >200°F (>93.33°C)
Evaporation Rate ..... Not Established
Upper/Lower flammability or explosive limits ..... Not Established
Vapor Pressure ..... Not Established
Vapor Density ..... Not Established
Relative Density
Specific Gravity 0.99
Bulk Density (lbs./gal) 8.23
Solubility ..... Slightly Soluble
Partition Coefficient; n-octanol/water ..... Not Established
Auto-ignition temperature ..... Not Established
Viscosity ..... Not Established

Note: Physical data presented above are typical values and should not be construed as a specification.

Section 10 – Stability and Reactivity

10.1 Reactivity: Stable under normal conditions.

10.2 Chemical Stability: Product is stable.

10.3 Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid: Extremes of temperature and direct sunlight.

10.5 Incompatible Materials: Reactive or incompatible with the following materials: aliphatic amines, strong oxidizing agents, strong acids.

10.6 Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10.7 Other Hazards: Reacts with considerable heat release with some curing agents.

Section 11 – Toxicological Information

11.1 Information on the likely routes of exposure:
Not Available

11.2 Symptoms related to the physical, chemical and toxicological characteristics:

Acute Toxicity:	Not classified
Skin Corrosion/Irritation:	Causes skin irritation
Serious Eye Damage/Irritation:	Causes serious eye irritation
Respiratory or Skin Sensitization:	May cause an allergic skin reaction
Germ Cell Mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (Single Exposure):	Not classified
Specific Target Organ Toxicity (Repeated Exposure):	Not classified
Aspiration Hazard:	Not classified

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure:	Not Available
Long term exposure:	Not Available
Chronic effects:	Not Available

11.4 Numerical Measure of toxicity (Acute toxicity estimates)

Acute Toxicity Data:

ATE Oral (Product):	2198 mg/kg
ATE Dermal (Product):	2459 mg/kg

ATE values calculated using Appendix A.1.3.6 to 29 CFR §1910.1200

11.5 Carcinogenicity:
Not Available

Section 12 – Ecological Information

12.1 Ecotoxicity: Not Available

12.2 Persistence and Degradability: Not Available

12.3 Bioaccumulative Potential: Not Available

12.4 Mobility in Soil: Not Available

12.5 Other Adverse Effects: Not Available

Section 13 – Disposal Considerations

13.1 Information on waste and methods of disposal
Dispose of contents in accordance with all local, regional, national and international regulations.

Section 14 – Transportation Information

14.1 Transportation information

Land Transportation (DOT):

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin, Aliphatic acrylate monomer)
Hazard Class:	9
Identification Number:	UN 3082
Packing group:	III
Marine Pollutant:	Yes

Sea Transportation (IMDG):

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin, Aliphatic acrylate monomer)
Hazard Class:	9
Identification Number:	UN 3082
Packing group:	III
Marine Pollutant:	Yes

Air Transportation (IATA):

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin, Aliphatic acrylate monomer)
Hazard Class:	9
Identification Number:	UN 3082
Packing group:	III

14.2 Transportation in bulk according to Annex II of Marpol 73/78 and the IBC Code:
This product is not intended to be transported in bulk containers.

14.3 Special precautions for transportation:
No data available

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations specific for the product in question.
This regulatory information is not intended to be comprehensive. Other regulations may apply to this material. To determine applicability or effects of any law or regulation with respect to the product, user should seek legal advice or consult with the appropriate government agency.

United States Federal Regulations:
US EPA CERCLA Hazardous Substances (40 CFR 302):
Not Evaluated

SARA Section 311/312 Hazard Categories:
Not Evaluated

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

Not Evaluated

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III
Section 313 Toxic Chemicals (40 CRF 372.65) – Supplier Notification Required:
None above de minimis concentration

State Right-To-Know Information:
For details of your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:
Not Evaluated

California Prop. 65: This product contains the chemicals listed below, which the State of California has found to cause cancer, birth defects or reproductive harm.

Oxirane, 2-(phenoxymethyl)-	(cancer)
Quartz (fine fraction)	(cancer)
Ethylbenzene	(cancer)
Cumene	(cancer)
Benzene	(cancer, reproduction)
Propylene oxide	(cancer)
Toluene	(reproduction)
1,2-Benzenediol	(cancer)
Benzene, methyl-	(reproductive)

Section 16 – Other Information

16.1 Date of preparation or last revision:

Company:	GS Polymers, Inc.
Rev Date:	6/23/2024
Rev By:	BN

Reason for Change:
Section 2, 3, 8, 9, 11, 14, 15

16.2 Additional information:
The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein. To determine applicability or effects of any law or regulation with respect to the product, user should seek legal advice or consult with the appropriate government agency.