Dur-A-Glaze #4 Flex Resin
SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier: Dur-A-Glaze #4 Flex Resin

Recommended use: Floor Surfacing

Manufacturer Name: Dur-A-Flex, Inc.
95 Goodwin Street
East Hartford, CT 06108
Telephone number: 860-528-9838

Emergency phone number: 1-800- 424-9300 (CHEMTREC)

Date of Preparation: December 12, 2014

2. HAZARD(S) IDENTIFICATION

This product is one part of a 2 part product. Read and understand the hazard information on the SDS for Dur-A-Glaze #4 Hardener before using this product.

Classification:

Physical	Health
Not Hazardous	Skin Irritation Category 2 Eye Irritation Category 2A Skin Sensitization Category 1 Germ Cell Mutagenicity Category 2

Labeling:

Warning!

Hazard statement(s)

Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing genetic defects.

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust, fume, gas, mist, vapors or spray.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves and eye protection.
IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical attention.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.
IF exposed or concerned: Get medical attention.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Bisphenol A Epoxy Resin	Proprietary	30-60%
Aliphatic Glycidyl Ether Diluent	Proprietary	10-30%
Diglycidyl Ether Bisphenol A Epoxy Resin	25085-99-8	1-10%
Propylene Carbonate	108-32-7	1-10%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation: Remove victim to fresh air. If irritation occurs or breathing is difficult, get medical attention.
Skin contact: Remove contaminated clothing. Wash with soap and water. If irritation or rash develops, get medical attention.
Eye contact: Immediately flush with large quantities of water for several minutes, holding the eyelids apart. Get medical attention if irritation persists.
Ingestion: If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.

Most important symptoms/effects, acute and delayed: Causes eye and skin irritation. May cause allergic skin reaction. Inhalation of mists may cause upper respiratory irritation.

Indication of immediate medical attention and special treatment, if necessary: None expected under normal conditions of use.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Use media appropriate for the surrounding fire.

Specific hazards arising from the chemical: Combustion may produce carbon and nitrogen oxides.

Special protective equipment and precautions for fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing as described in Section 8.

Environmental precautions: Avoid release to the environment. Report releases as required by local, state and federal authorities.

Methods and materials for containment and cleaning up: Contain and collect with an inert absorbent. Place into an appropriate container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Wash thoroughly after handling and before eating, drinking, smoking or using the toilet. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from physical damage. Store away from oxidizing agents, acids and bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Bisphenol A Epoxy Resin	None Established
Aliphatic Glycidyl Ether Diluent	None Established
Diglycidyl Ether Bisphenol A Epoxy Resin	None Established
Propylene Carbonate	None Established

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to minimize exposures.

Personal Protective Equipment:
Respiratory protection: If the exposures are excessive, a NIOSH approved respirator with an organic vapor cartridge and a dust/mist prefilter or supplied air respirator is recommended. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice**.**
Skin protection: Wear impervious gloves such as butyl rubber.
Eye protection: Chemical safety goggles recommended.
Other: Impervious clothing as needed to prevent contact. An eye wash and safety shower should be available in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Viscous liquid
Odor: Mild characteristic odor

Odor threshold: Not available	**pH:** Not available
Melting Point/Freezing Point: - Not available	**Boiling Point:** Not available
Flash point: 485 °F / 251.6°C	**Evaporation rate:** Not available
Flammability (solid, gas): Not applicable	

Flammable limits: LEL: Not available	**UEL:** Not available
Vapor pressure: Not available	**Vapor density:** Not available
Relative density: >1	**Solubility (is):** Insoluble in water.
Partition coefficient: n-Octanol/water: Not applicable	**Auto-ignition temperature:** Not available
Decomposition temperature: Not available	**Viscosity:** Not available

10. STABILITY AND REACTIVITY

Reactivity: None known.
Chemical stability: Stable.
Possibility of hazardous reactions: May polymerize with amines, mercaptans and Lewis acids.
Conditions to avoid: Avoid excessive heat.
Incompatible materials: Avoid contact with oxidizing agents, peroxides, acids and bases.
Hazardous decomposition products: Thermal decomposition may produce carbon and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Inhalation: Excessive inhalation of mists may cause mucous membrane and upper respiratory tract irritation.
Ingestion: Swallowing may cause gastrointestinal irritation, nausea and diarrhea.
Skin contact: May cause skin irritation with redness, itching and pain. May cause allergic skin reaction (sensitization).
Eye contact: May cause irritation with redness, tearing, stinging and swelling.

Chronic effects from short- and long-term exposure: None known.

Reproductive Toxicity: This product is not expected to cause adverse reproductive or developmental effects.

Sensitization: Diglycidyl ether bisphenol A epoxy resin and aliphatic glycidyl ether diluent causes sensitization in laboratory animals.

Mutagenicity: Diglycidyl ether bisphenol A epoxy resin has been shown to cause mutagenic activity in animal and bacterial studies.

Carcinogenicity: None of the components are listed as a carcinogen by IARC, NTP, ACGIH or OSHA.

Acute Toxicity Values:
Bisphenol A Epoxy Resin: Oral rat LD50 > 2000 mg/kg; Inhalation rat LC0 – no deaths at saturation; Dermal rabbit LD50 > 2000 mg/kg
Aliphatic Glycidyl Ether Diluent: Oral rat LD50 26.8 g/kg
Diglycidyl Ether Bisphenol A Epoxy Resin: No toxicity data available.
Propylene Carbonate: Oral rat LD50 >5000 mg/kg, Dermal rabbit LD50 2000 mg/kg.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Bisphenol A Epoxy Resin: 96 hr LC50 Oncorhynchus mykiss 1.2 mg/L; 48 hr EC50 daphnia magna 1.1 mg/L; 72 hr EC50 Scenedesmus capricornutum 9.4 mg/L

Aliphatic Glycidyl Ether Diluent: 96 hr LC50 Oncorhynchus mykiss > 5000 mg/L; 72 hr IC50 Pseudokirchnerella subcapitata 843.75 mg/L
Diglycidyl Ether Bisphenol A Epoxy Resin: No data available.
Propylene Carbonate: 96 hr LC50 Cyprinus carpio >1000 mg/L, 48 hr EC50 daphnia magna >1000 mg/L, 72 he EC50 Desmodesmus subspicatus >900 mg/L.

Persistence and degradability: Diglycidyl ether bisphenol A epoxy resin is not readily biodegradable. Aliphatic glycidyl ether diluent is readily biodegradable.
Bioaccumulative potential: Bisphenol A epoxy resin has a BCF of 31. Aliphatic glycidyl ether diluent has a BCF 160-263.
Mobility in soil: No data available.
Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	None	Not Regulated	None	None	None
TDG	None	Not Regulated	None	None	None
IMDG	UN 3082	Environmentally hazardous substances, liquid, n.o.s. (Bisphenol A Epoxy Resin)	9	PG III	Marine Pollutant
IATA	UN 3082	Environmentally hazardous substances, liquid, n.o.s. (Bisphenol A Epoxy Resin)	9	PG III	Yes

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known

15. REGULATORY INFORMATION

CERCLA: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health

SARA 313 Information: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

California Proposition 65

This product contains the following chemicals known to the State of California to cause cancer or reproductive toxicity (birth defects):

epicholorhydrin	106-89-8	<0.1	cancer male reproductive toxicity
benzene	71-43-2	1 ppm	cancer
toluene	108-88-3	1 ppm	developmental
ethylbenzene	100-41-4	1 ppm	cancer male reproductive toxicity developmental

EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.

CANADA:
Canadian CEPA: All of the ingredients in this product are listed on the Canadian DSL.
Canadian WHMIS Classification: Class D Division 2 Subdivision B (Toxic Material Causing other Toxic Effects)
This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

16. OTHER INFORMATION

NFPA Rating: Health = 2 Flammability = 1 Instability = 0
HMIS Rating: Health = 2* Flammability = 1 Physical Hazard = 0

SDS Revision History: Converted to GHS format. All sections revised.
Date of preparation: December 12, 2014
Date of last revision: New SDS

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Dur-A-Flex, Inc. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND USE.