

## Dur-A-Gard 50/50 Resin SAFETY DATA SHEET

**1. IDENTIFICATION**

**Product Identifier:** Dur-A-Gard 50/50 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:** January 30, 2015, Rev. July 20, 2016

**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-Gard 50/50 Hardener before using this product.

**Classification:**

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

**Labeling:**

**Warning!**



**Hazard statement(s)**

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.

**Precautionary statement(s)**

Avoid breathing mist, vapors or spray.  
Wash thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves, eye protection and face protection.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical attention.  
Take off contaminated clothing and wash it 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.  
Dispose of contents and container in accordance with local  
and national regulations.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Diglycidyl Ether Bisphenol A Epoxy Resin	25068-38-6	65-85%
Aliphatic Glycidyl Ether Diluent (Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)	68609-97-2	10-20%
Barium Sulfate	7727-43-7	1-15%
Calcium Carbonate	1317-65-3	1-10%
Kaolin**	1332-58-7	1-5%
Epoxy Phenol Novolac Resin	28064-14-4	1-5%
Titanium Dioxide*	13463-67-7	0-30%

\* The titanium dioxide in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore this product is not classified as a carcinogen.

\*\* The kaolin in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore the product is not classified for Specific Target Organ Toxicity Repeat Exposure,

**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 15 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:** May cause eye and skin irritation. May cause allergic skin reaction.

**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 oxides and phenolic compounds.

**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:

Diglycidyl Ether Bisphenol A Epoxy Resin	None Established
Aliphatic Glycidyl Ether Diluent (Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)	None Established
Barium Sulfate	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust) 5 mg/ m <sup>3</sup> TWA ACGIH TLV (inhalable fraction)
Calcium Carbonate	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Kaolin**	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust) 2 mg/ m <sup>3</sup> TWA ACGIH TLV (respirable)
Epoxy Phenol Novolac Resin	None Established
Titanium Dioxide*	15 mg/m <sup>3</sup> TWA OSHA PEL (total dust) 10 mg/ m <sup>3</sup> TWA ACGIH TLV

**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

<b>Odor threshold:</b> Not available	<b>pH:</b> Not available
<b>Melting Point/Freezing Point:</b> - Not available	<b>Boiling Point:</b> Not available
<b>Flash point:</b> 485 °F / 251.6°C	<b>Evaporation rate:</b> Not available
<b>Flammability (solid, gas):</b> Not applicable	
<b>Flammable limits: LEL:</b> Not available	<b>UEL:</b> Not available
<b>Vapor pressure:</b> Not available	<b>Vapor density:</b> Not available
<b>Relative density:</b> 1.55	<b>Solubility(is):</b> Insoluble in water
<b>Partition coefficient: n-Octanol/water:</b> Not applicable	<b>Auto-ignition temperature:</b> Not available
<b>Decomposition temperature:</b> Not available	<b>Viscosity:</b> 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, acids and bases.

**Hazardous decomposition products:** Thermal decomposition may produce carbon oxides and phenolic compounds.

## 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, epoxy phenol novolac resin and aliphatic glycidyl ether diluent cause sensitization in laboratory animals.

**Mutagenicity:** This product is not expected to cause mutagenic activity.

**Carcinogenicity:** Titanium dioxide is listed by IARC as a group 2B carcinogen (possible human carcinogen). This component is inextricably bound in a manner that no exposure occurs during normal use and disposal. None of the other components >0.1 are listed by OSHA, IARC, NTP or ACGIH as a carcinogen.

**Acute Toxicity Values:**

Diglycidyl Ether 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

Titanium Dioxide: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >6.82 mg/L/4 hr

Barium Sulfate: Oral rat LD50 307 g/kg

Calcium Carbonate: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >3 mg/L/4 hr, Dermal rat LD50 >2000 mg/kg (structurally similar chemical)

Kaolin: No toxicity data available

Epoxy Phenol Novolac Resin: Oral rat LD50 >4000 mg/kg; Dermal rabbit LD50 >2000 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Diglycidyl Ether 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

Titanium Dioxide: 96 hr LC50 *Pimephales promelas* >1000 mg/L, 48 hr EC50 *daphnia magna* >1000 mg/L, 72 hr EC50 *Pseudokirchnerella subcapitata* 61 mg/L

Barium Sulfate: 96 hr LC50 *Danio rerio* > 3.5 mg/L, 48 hr EC50 *daphnia magna* 14.5 mg/L, 72 hr EC50

*Pseudokirchnerella subcapitata* > 1.15 mg/L

Calcium Carbonate: 96 hr LC50 *Oncorhynchus mykiss* >100 mg/L, 48 hr EC50 *daphnia magna* >10 mg/L, 72 hr EC50 *Desmodesmus subspicatus* >14 mg/L

Kaolin: No data available

Epoxy Phenol Novolac Resin: 96 hr LC50 *Leuciscus idus* >1-10 mg/L; 48 hr EC50 *daphnia magna* >1-10 mg/L (structurally similar chemical)

**Persistence and degradability:** Diglycidyl ether bisphenol A epoxy resin and epoxy phenol novolac resin are not readily biodegradable. Aliphatic glycidyl ether diluent is readily biodegradable. Biodegradation is not applicable to inorganic substances.

**Bioaccumulative potential:** Diglycidyl ether 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

<b>TDG</b>	None	Not Regulated	None	None	None
<b>IMDG</b>	UN 3082	Environmentally hazardous substances, liquid, n.o.s. (Diglycidyl Ether Bisphenol A Epoxy Resin)	9	PG III	Marine Pollutant
<b>IATA</b>	UN 3082	Environmentally hazardous substances, liquid, n.o.s. (Diglycidyl Ether 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):

epichlorhydrin	106-89-8	<0.09%	cancer, male reproductive toxicity
Ethyl acrylate	140-88-5	13 ppm	Cancer
Crystalline silica, quartz	14808-60-7	0.03%	Cancer
Titanium dioxide	13463-67-7	0-15%	Cancer
Ethylbenzene	100-41-4	<0.014%	cancer

**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:** January 30, 2015

**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.