

## Ultra-Clear Hardener SAFETY DATA SHEET

**1. IDENTIFICATION**

**Product Identifier:** Ultra-Clear Hardener

**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 Ultra-Clear Resin before using this product.

**Classification:**

Physical	Health
Not Hazardous	Acute Toxicity Category 4 (Oral) Skin Corrosion Category 1A Eye Damage Category 1 Skin Sensitization Category 1

**Labeling:**

**Danger!**



**Hazard statement(s)**

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

**Precautionary statement(s)**

Do not breathe vapors, mists or spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves, protective clothing, eye protection and face protection.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water.  
Wash contaminated clothing before reuse.  
Immediately call a POISON CENTER or doctor.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a POISON CENTER or doctor.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor.  
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
Benzyl Alcohol	100-51-6	20-40%
3, Aminomethyl -3,5,5-Trimethylcyclohexylamine	2855-13-2	20-40
1,3-cyclohexanedimethanamine	2579-20-6	10-20%
Neopentyl Glycol Diglycidyl Ether	17557-23-2	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 breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

**Skin contact:** Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get immediate medical attention. If rash occurs, get medical attention. Launder clothing before re-use.

**Eye contact:** Immediately flush with large quantities of water for 20 minutes, holding the eyelids apart. Get immediate medical attention.

**Ingestion:** If conscious, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting. Get immediate medical attention.

**Most important symptoms/effects, acute and delayed:** May cause severe eye and skin irritation with possible burns. May cause allergic skin reaction. Inhalation of vapors or mists may cause irritation of mucous membranes and upper respiratory tract. Harmful if swallowed. May cause burns to the mouth, throat or stomach.

**Indication of immediate medical attention and special treatment, if necessary:** If contact occurs by any route, get immediate medical attention.

### 5. FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** Use water spray, foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

**Specific hazards arising from the chemical:** Combustion may produce carbon and nitrogen oxides, d aldehydes.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Environmental precautions:** Prevent 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. Caution slip hazard. Wash spill site with soap and water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Prevent contact with eyes and skin. Avoid breathing vapors or mists. Wash thoroughly after handling and before eating, drinking, smoking or using the toilet. Do not taste or swallow. Use only 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 and other incompatible materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines:

Benzyl Alcohol	10 ppm TWA AIHA WEEL
3, Aminomethyl -3,5,5-Trimethyl	None Established
1,3-cyclohexanedimethanamine	None Established
Neopentyl Glycol Diglycidyl Ether	None Established

**Appropriate engineering controls:** Use with adequate general or local exhaust ventilation to maintain exposures below occupational exposure limits.

### Personal Protective Equipment:

**Respiratory protection:** If the exposures are exceeded, 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 4H™.

**Eye protection:** Chemical safety goggles and faceshield 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.):** Yellow liquid

**Odor:** Amine odor

<b>Odor threshold:</b> Not available	<b>pH:</b> Not available
<b>Melting Point/Freezing Point:</b> - Not available	<b>Boiling Point:</b> 485°F / 251.6°C
<b>Flash point:</b> 220 °F / 104.4°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> 0.02 mmHg	<b>Vapor density:</b> Not available
<b>Relative density:</b> <1	<b>Solubility(is):</b> Partially soluble 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:** None known.

**Conditions to avoid:** Avoid uncontrolled reaction with epoxy resins.

**Incompatible materials:** Avoid contact with oxidizing agents, acids, alkalis and halogenated compounds.

**Hazardous decomposition products:** Thermal decomposition may produce carbon and nitrogen oxides and aldehydes.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation:** Inhalation of vapors and mists may cause mucous membrane and upper respiratory tract irritation. Excessive vapors may cause burns to the mucous membranes and cause lung damage.

**Ingestion:** Swallowing may cause burns to the mouth, throat and stomach with nausea, vomiting and diarrhea.

**Skin contact:** May cause severe irritation or burns. May cause allergic skin reaction.

**Eye contact:** May cause severe irritation or burns with redness, tearing, stinging and swelling. May cause permanent damage.

**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:** 3-Aminomethyl -3,5,5-trimethyl and neopentyl glycol diglycidyl ether have been shown to cause sensitization in studies with laboratory animals.

**Mutagenicity:** None of the components have been shown to cause mutagenic activity.

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

**Acute Toxicity Values:** No toxicity data for the product. The acute toxicity estimate for the product: Oral 1333 mg/kg, Dermal >2000 mg/kg

Benzyl Alcohol: Oral rat LD50 1620 mg/kg; Inhalation rat LC50 > 4.178 mg/L  
 3, Aminomethyl -3,5,5-Trimethyl: Oral rat LD50 1030 mg/kg; Inhalation rat LC50 >5.01 mg/L/4 hr; Dermal rabbit LD50 >2000 mg/kg  
 1,3-Cyclohexanedimethanamine: Oral rat LD50 >300 – 2000 mg/kg; Dermal rabbit LD50 1700 mg/kg  
 Neopentyl Glycol Diglycidyl Ether: Oral rat LD50 4500 mg/kg; Dermal rat LD50 >2100 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Benzyl Alcohol: 96 hr LC50 Pimephales promelas 770 mg/L; 48 hr EC50 daphnia magna 230 mg/L; 72 hr EC50 Pseudokirchnerella subcapitata 770 mg/L  
 3, Aminomethyl -3,5,5-Trimethyl: 96 hr LC50 Leuciscus idus 110 mg/L; 48 hr EC50 daphnia magna 23 mg/L; 72 hr EC50 Desmodemus subspicatus 37 mg/L  
 1,3-Cyclohexanedimethanamine: 96 hr LC50 Leuciscus idus 130 mg/L; 48 hr EC50 daphnia magna 33.1 mg/L; 72 hr EC50 Pseudokirchnerella subcapitata 56.7 mg/L  
 Neopentyl Glycol Diglycidyl Ether: 96 hr LC50 Oncorhynchus mykiss > 5000 mg/L; 72 hr IC50 Pseudokirchnerella subcapitata 843.75 mg/L

**Persistence and degradability:** Benzyl alcohol is readily biodegradable. 3, Aminomethyl -3,5,5-trimethyl is not readily biodegradable.

**Bioaccumulative potential:** Benzyl alcohol and 3, aminomethyl -3,5,5-trimethyl a BCF of <5.

**Mobility in soil:** Benzyl alcohol is highly mobility in soil.

**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
<b>DOT</b>	UN 2735	Amines, liquid, corrosive n.o.s. (1,3-cyclohexanedimethanamine, 3, Aminomethyl -3,5,5-Trimethyl)	8	PG II	None
<b>TDG</b>	UN 2735	Amines, liquid, corrosive n.o.s. (1,3-cyclohexanedimethanamine, 3, Aminomethyl -3,5,5-Trimethyl)	8	PG II	None
<b>IMDG</b>	UN 2735	Amines, liquid, corrosive n.o.s. (1,3-cyclohexanedimethanamine, 3, Aminomethyl -3,5,5-Trimethyl)	8	PG II	None
<b>IATA</b>	UN 2735	Amines, liquid, corrosive n.o.s. (1,3-	8	PG II	None

		cyclohexanedimethanamine, 3, Aminomethyl -3,5,5- Trimethyl)			
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**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):

Toluene	108-88-3	<0.033%	developmental toxicity
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**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), Class E (Corrosive)

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

## 16. OTHER INFORMATION

**NFPA Rating:** Health = 3    Flammability = 1    Instability = 0  
**HMIS Rating:** Health = 3    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

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HEREIN AND USE.