

Dur-A-Poly #245 Hardener SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier: Dur-A-Poxy #245 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 Dur-A-Poxy #245 Resin before using this product.

Classification:

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

Labeling:

Danger!



Hazard statement(s)

Causes skin irritation.
Causes serious eye damage.
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.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical attention.
Wash contaminated clothing before reuse.
Wear eye protection and face protection.
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.
Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Water	7732-18-5	40-60%
Titanium Dioxide*	13463-67-7	20-40%
Polyamide Resin	68410-23-1	10-30%
Stoddard Solvent	8052-41-3	1-5%
Triethylenetetramine	112-24-3	1-5%

*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 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 or irritation occurs, get medical attention.

Skin contact: Remove contaminated clothing. Wash with soap and water. If irritation develops, get medical attention.

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. 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 severe irritation or burns. Permanent damage may occur. May cause skin irritation. Inhalation of vapors or mists may cause mucous membrane and upper respiratory tract irritation. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of immediate medical attention and special treatment, if necessary: If eye contact occurs, get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Use carbon dioxide, dry chemical or dry chemical to extinguish fire. Do not use water jet. Product will float and can reignite on surface. Water sprayed into open container may cause frothing.

Specific hazards arising from the chemical: This product is not flammable or combustible. Heat may cause the product to polymerize and the containers to burst. Combustion may produce carbon oxides, nitrogen oxides and other organic 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: Prevent contact with eyes. Avoid contact with 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: Store in a closed in a cool, dry and well-ventilated area. Protect from physical damage. Store away from oxidizing agents. Protect from physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Titanium Dioxide	15 mg/m ³ TWA OSHA PEL (total dust) 10 mg/m ³ TWA ACGIH TLV
Polyamide Resin	None Established
Stoddard Solvent	500 ppm TWA OSHA PEL 100 ppm TWA ACGIH TLV
Triethylenetetramine	1 ppm AIHA WEEL

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

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 and faceshield recommended.

Other: Impervious clothing as needed to prevent contact. An eye wash should be available in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): White viscous liquid

Odor: Mild odor

Odor threshold: Not available	pH: Not available
Melting Point/Freezing Point: Not available	Boiling Point: 212°F / 100°C
Flash point: Not flammable	Evaporation rate: Not available
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not available	Vapor density: Not available
Relative density: >1	Solubility(is): Soluble 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: May polymerize with epoxy resins.

Chemical stability: Stable.

Possibility of hazardous reactions: May polymerize with epoxy resin.

Conditions to avoid: Heating above 300°F may cause decomposition. Above 500°F, polymerization may occur.

Incompatible materials: Avoid contact with oxidizing agents.

Hazardous decomposition products: Thermal decomposition may produce carbon oxides, nitrogen oxides and other organic 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.

Eye contact: May cause severe irritation or burns with redness, tearing, stinging and swelling. Permanent damage may occur.

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: None of the components have been shown to cause sensitization in animals or humans.

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:

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

Polyamide Resin: Oral rat LD50 >5000 mg/kg
Stoddard Solvent: No toxicity data available
Triethylenetetramine: Oral rat LD50 1080 mg/kg, Dermal rabbit LD50 675 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Titanium Dioxide: 96 hr LC50 Pimephales promelas >1000 mg/L, 48 hr EC50 daphnia magna >1000 mg/L, 72 hr EC50 Pseudokirchneriella subcapitata 61 mg/L
Polyamide Resin: No data available
Stoddard Solvent: No data available
Triethylenetetramine: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

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	None	Not Regulated	None	None	None
IATA	None	Not Regulated	None	None	None

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, Chronic 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):

1,4 dioxane	123-91-1	<1 ppm	cancer
Acetaldehyde	75-07-0	<1 ppm	cancer
Ethylene oxide	75-21-8	<1 ppm	cancer, developmental, female reproductive toxicity, male reproductive toxicity

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 2A (Very toxic materials 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 = 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 TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND USE.