Poly-Thane #2 High Solids Resin
SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier: Poly-Thane #2 High Solids 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: February 18, 2015

2. HAZARD(S) IDENTIFICATION

Classification:

Physical	Health
Flammable Liquid Category 3	Toxic to Reproduction Category 1B

Labeling:

Danger!

Hazard statement(s)

Flammable liquid and vapor.
May damage the unborn child

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment
Use explosion-proof electrical, ventilating and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves and eye protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF exposed or concerned: Get medical attention.
In case of fire: Use water spray, carbon dioxide, alcohol foam or dry chemical to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
1-Methoxy-2-propyl acetate (PGMEA)	108-65-6	40-60%
2-Methoxy-1-propyl acetate	70657-70-4	0.1-0.5%

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 skin with soap and water for several minutes. If irritation persists, get medical attention. Launder clothing before re-use.
Eye contact: Flush with large quantities of water, 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 mild eye irritation. Prolonged skin contact may cause irritation. Inhalation of vapors or mists may cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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 water spray, carbon dioxide, alcohol foam or dry chemical. Cool fire exposed containers with water.

Specific hazards arising from the chemical: Flammable liquid and vapor. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat. Combustion may produce carbon oxides and nitrogen oxides.

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: Avoid contact with skin, eyes or clothing. Avoid breathing vapors. Wear appropriate protective clothing as described in Section 8. Eliminate all ignition sources. Ventilated the area. Provide explosion-proof ventilation.

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. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapors and protect personnel attempting to stop leak.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Ground container when pouring. Keep away from heat, sparks, flames and all sources of ignition. Do not expose to direct sunlight. Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well ventilated area. Keep container tightly closed when not in use. Protect from physical damage. Keep away from oxidizers and other incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

1-Methoxy-2-propyl acetate (PGMEA)	50 ppm AIHA WEEL
2-Methoxy-1-propyl acetate	None Established

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposures below occupational exposure limits. Use explosion-proof equipment where required.

Personal Protective Equipment:
Respiratory protection: In operations where exposure limits are exceeded, an approved respirator with organic vapor cartridges or supplied air respirator should be used. Selection and use of respiratory equipment must be in accordance with appropriate regulations and good industrial hygiene practice.
Skin protection: Wear impervious gloves such as butyl rubber, nitrile or neoprene to prevent skin contact. .
Eye protection: Wear safety chemical goggles if contact is possible.
Other: Impervious clothing as needed to prevent contact and prevent contamination of personal clothing. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Clear liquid
Odor: Fruity, aromatic odor

Odor threshold: Not available	**pH:** Not available
Melting Point/Freezing Point: Not available	**Boiling Point:** 295°F / 145.8°C
Flash point: 107.6 °F / 42°C	**Evaporation rate:** 0.3 (PGMEA)
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: 1.5% (PGMEA)	**UEL:** 10.0 % (PGMEA)
Vapor pressure: 0.5 mmHg (PGMEA)	**Vapor density (air =1):** 4.6 (PGMEA)
Relative density: >1	**Solubility(is):** Appreciable in water
Partition coefficient: n-Octanol/water: Not applicable	**Auto-ignition temperature:** 518°F (270°C) (PGMEA)
Decomposition temperature: Not available	**Viscosity:** Not available

10. STABILITY AND REACTIVITY

Reactivity: May react with oxygen.
Chemical stability: Stable under normal conditions of use.
Possibility of hazardous reactions: May react with oxygen to form peroxides.
Conditions to avoid: Avoid heat, sparks and open flames.
Incompatible materials: Avoid contact with oxidizing agents, reducing agents and peroxides.
Hazardous decomposition products: Thermal decomposition may produce carbon and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Inhalation: Vapors or mists may cause respiratory irritation and central nervous system effects including headache, dizziness, nausea and drowsiness.
Ingestion: Swallowing may cause gastrointestinal irritation, nausea and diarrhea.
Skin contact: Prolonged skin contact may causes redness and drying of the skin. 1-Methoxy-2-propyl acetate may be absorbed through the skin causing symptoms similar to those listed under inhalation.
Eye contact: May cause mild eye irritation with redness, tearing and swelling.

Chronic effects from short- and long-term exposure: Chronic absorption may cause kidney or liver damage based on studies with laboratory animals.

Reproductive Toxicity: 2-Methoxy-1-propanol has been shown to cause developmental effects in the offspring of female rabbits exposed by inhalation during pregnancy. The NOEL was 145 ppm. 2-Methoxy-1-propyl acetate is metabolized to 2-Methoxy-1-propanol in the body. 2-Methoxy-1-propyl acetate was also tested and found to cause developmental effects with a NOEL of 145 ppm in rabbits.

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

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, OSHA or ACGIH.

Acute Toxicity Values: No toxicity data for the product. Acute Toxicity Estimate: Oral rat LD50 14285 mg/kg, Dermal >2000 mg/kg
1-Methoxy-2-propyl acetate: Oral rat LD50 8532 mg/kg, Dermal rat LD50 >2000 mg/kg, Inhalation rat LC0 >23.4 mg/L/6 hr
2-Methoxy-1-propyl acetate: No toxicity data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:
1-Methoxy-2-propyl acetate: 96 hr LC50 Oncorhynchus mykiss 100 mg/L, 48 hr EC50 daphnia magna > 500 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata > 1000 mg/L
2-Methoxy-1-propyl acetate: No data available

Persistence and degradability: 1-Methoxy-2-propyl acetate is readily biodegradable.
Bioaccumulative potential: -Methoxy-2-propyl acetate has a calculated BCF of 3.16. This suggests the potential for bioaccumulation is low.
Mobility in soil: -Methoxy-2-propyl acetate is highly mobility on 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
DOT	UN1866	Exempted from HazMat Regulations (49CFR 173.150f)	3	III	None
TDG	UN1866	Exempted from Regulation (Section 1.33)	3	III	None
IMDG	UN1866	Resin Solution	3	III	None
IATA	UN1866	Resin Solution	3	III	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): Chronic Health, Fire Hazard

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):

Ethylbenzene	100-41-4	<0.02	Cancer

Benzene	71-43-2,	<0.5 ppm	Cancer, developmental, male reproductive toxicity
toluene	108-88-3	<0.5 ppm	Developmental
Benzene, 1,3-Butadiene	106-99-0	<2.4 ppm	Cancer, developmental, male reproductive toxicity, female 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 B-3 (Combustible Liquid), Class D Division 2 Subdivision A (Very toxic Material Causing other Toxic Effects)
This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

16. OTHER INFORMATION

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

SDS Revision History: Converted to GHS format. All sections revised.
Date of preparation: February 18, 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.