

SAFETY DATA SHEET

1. PRODUCTS AND COMPANY IDENTIFICATION

Product Name: MULTI- GLAZE (MCU) 400 VOC-CLEAR (Canada: Flexstone Clear Coat)

Product Use: Polyurethane Maintenance Coating

| Manufacturer | Canadian Supplier | Medical Emergency |
|---|---|---|
| TUFFLEX POLYMERS 10880 Poplar Avenue Fontana, CA 92337 Web: www.tufflexpolymers.com Fax Number: (909) 823-6309 | FLEXSTONE COATINGS INC 1230 W 75 th Avenue Vancouver, BC, V6P3G3 Web: www.flexstones.ca Fax: (604) 222-1818 | CHEMTREC (USA): (800) 424-9300 CHEMTREC (International): (703) 527-3887 SDS Assistance: (909) 349-2016 Technical Assistance: (909) 349-2016 Customer Service: (888) TUFFLEX |

2. COMPONENT INFORMATION

Classification (GHS-US)

| | |
|----------------------|------|
| Flam. Liq. 3 | H226 |
| Asp. Tox. 1 | H304 |
| Skin Irrit. 2 | H315 |
| Skin Sens. 1 | H317 |
| Eye Irrit. 2A | H319 |
| Acute Tox. Inhal. 3 | H331 |
| Acute Tox. 4 | H332 |
| STOT SE 3 | H335 |
| STOT SE 3 | H336 |
| Carc. 2 | H351 |
| Repro. Tox 1B | H360 |
| STOT RE 2 | H373 |
| Acute Tox. 2 | H401 |
| Aquatic Chronic 2 | H411 |
| Chronic Aqua. Tox. 3 | H412 |

Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US)



| | |
|-----------------------------|--------|
| Signal Word (GHS-US) | Danger |
|-----------------------------|--------|

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|-----------------------------------|---|
| Hazard Statements (GHS-US) | <p>H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H317-May cause an allergic skin reaction H319-Causes serious eye irritation H331-Toxic if inhaled H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H351-Suspected of causing cancer by route of exposure if conclusively proven that no other route applies H362-May cause harm to breastfed children H373-May cause damage to organs through prolonged or repeated exposure by route of exposure if conclusively proven that no other route applies H401-Toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects H412-Harmful to aquatic life with long lasting effects</p> |
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**Precautionary Statements
(GHS-US)**

P202 - Do not handle until all safety
P201 - Obtain special instructions before use precautions have been read and understood
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 - Do not breathe mist.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P263 - Avoid contact during pregnancy/while nursing.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P281 - Use personal protective equipment as required.
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313 - IF exposed or concerned: Get medical advice/attention.
P311 - Call a POISON CENTER or doctor/physician.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label).
P331 - Do NOT induce vomiting.
P332+313 - If skin irritation occurs: Get medical advice/attention.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use appropriate media for extinction
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403 + P235 - Store in a well-ventilated place. Keep cool.
P403+233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up
P501 - Dispose of contents/container according to local, regional, national, and international regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components | CAS No. | Wt. % Range | Classification (GHS-US) |
|-------------------------------|------------|-------------|--|
| Xylene | 1330-20-7 | | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT RE 2, H373 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412 |
| 1-Methoxy-2-Propyl Acetate | 108-65-6 | | Flam. Liq. 3, H226 Repro. Tox. 1B, H360 |
| Aromatic Hydrocarbon Solvent | 64742-95-6 | | Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 STOT SE 3, H336 Aqua. Chronic 2, H411 |
| Aliphatic Diisocyanate | 5124-30-1 | < 1 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2A, H319 Acute Tox. Inhal. 3, H331 Resp. Sens. 1, H334 |
| Aliphatic Urethane Prepolymer | | | |

4. FIRST AID INFORMATION

Emergency and Hazards Overview: Flammable, viscous, clear liquid with a strong solvent odor. Causes skin irritation. Causes eye irritation. Harmful if swallowed or inhaled. Vapors are heavier than air and may travel to distant sources of ignition and flash back. Overexposure to vapors may cause dizziness, headache and central nervous depression. The product contains small amounts of aliphatic isocyanate, which can cause reactivation of prior asthma- type allergic reactions and irritation of nose, throat and lungs.

Ratings Health 2 Flammability 3 Reactivity 1

Primary Route of Exposure: Skin Inhalation Eye Ingestion

Health Effect Information

Eye Contact: May cause eye irritation if wiped or rubbed into eyes.

Skin Contact: May cause skin irritation if wiped or left on the skin

Inhalation: May cause irritation of respiratory tract which may result in sinusitis, bronchitis, or asthma. Breathing vapors may cause central nervous system depression.

Ingestion: Moderately toxic. Ingestion may cause symptoms similar to those of inhalation.

Medical Conditions Aggravated by Exposure: Prolonged exposure to solvents and isocyanates may aggravate allergic reactions to nose, throat and lungs.

Eye Contact: Immediately flush with copious amounts of lukewarm water for at least 15 minutes. Have eyes examined and treated by medical personnel.

Skin Contact: Dry skin with paper towel or similar. Wash affected skin thoroughly with soap and water. Immediately remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if any discomfort continues.

Inhalation: Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Ingestion: If swallowed, contact a physician immediately. Do not induce vomiting. Decision to induce vomiting should

only be made by a physician. Never give anything by mouth to an unconscious person.

Notes to Physician: This product contains aromatic and aliphatic hydrocarbon solvents and aliphatic isocyanate.

5. FIRE AND EXPLOSION INFORMATION

Flammable Properties

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|-----------------------------------|------------------|
| Flash Point: 82°F | Test Method: TCC |
| Flame extension: NA | Test Method: NA |
| Flammable Limits in Air by Volume | |
| Upper Percent: 13 | |
| Lower Percent: 1 | |
| Auto Ignition Temperature: NA | Test Method: NA |

NEPA Classification: H 2 F 3 R 1

Extinguishing Media: CO₂, foam or dry chemicals.

Fire Fighting Measures

Special Fire Fighting Procedures and Equipment: Use alcohol resistant foam, carbon dioxide, dry chemical to fight fires. Water spray may be used to cool containers. Water or foam may cause frothing if liquid is burning. When entering fire area wear NIOSH/OSHA approved, self-contained breathing apparatus and full protective gear. **Unusual Fire and**

Explosion Conditions: Vapors may be ignited by heat or sparks. Vapors are heavier than air and may travel to distant sources of ignition and flash back. Heat-exposed containers may burst. Material may collect static charges which can cause an incendiary electrical discharge. Empty container contains product residues. Do not pressurize, cut, weld, drill, grind or expose empty containers to heat flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death.

Hazardous Combustion By-Products: CO, CO₂, N₂O, HCN, unburned hydrocarbons, toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

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|----------------------------------|---|
| Personnel Safeguards: | Immediately evacuate all non-essential personnel to safe places. Emergency responders should wear positive pressure supplied air respirator with full face piece and proper protective gear before entering the affected area. |
| Regulatory Notifications: | Waste of this product is defined as hazardous according to U.S. EPA. Spill reporting requirements and reportable quantities vary by region. Consult all applicable state and local regulations. For Canada, observe all precautions noted above. |
| Containment and Clean-up: | Remove all sources of ignition. Provide ventilation. Respiratory protection is recommended during spill clean-up. Stop leak if possible, without risk. Prevent liquids from entering sewers, drains or waterways by diking with sand or earth. Absorb with vermiculite or other absorbent material, then flush area with decontamination solution. Put in open drums. Treat and clean with decontamination solution consisting of water containing 4-8% ammonia and 2% detergent. |

7. HANDLING AND STORAGE INFORMATION

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|------------------|---|
| Handling: | Provide good ventilation. Avoid prolonged contact with the skin. Air circulations and exhaustion of isocyanate or solvent vapors must be maintained until the coatings have fully cured to ensure that no potential fire, explosion or health hazard remains. Use solvent resistant gloves. Avoid rubbing eyes while handling. Respiratory caution to be taken. |
| Storage: | Store in cool, dry, ventilated space away from direct sunlight. Keep away from heat, sparks, open flames, electrical equipment, welding torches, pilot lights, etc. Store at 10-30° C |

Empty Container Warnings

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|-----------------|---|
| Drums: | Do not reuse empty drums or containers. Do not cut, drill, grind or weld on or near the empty drum. |
| Plastic: | Do not reuse empty containers. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

Exposure Limits and Guidelines

| Component | CAS No. | Exposure Limit |
|------------------------------|------------|--------------------|
| Xylene | 1330-20-7 | 100ppm ACGIH TWA |
| 1-methoxy-2-propyl acetate | 108-65-6 | 100ppm |
| Aromatic hydrocarbon solvent | 64742-95-6 | 100ppm ACGIH TWA |
| Aliphatic diisocyanate | 5124-30-1 | 0.005ppm ACGIH TWA |

Personal Protective Equipment

Eye/Face Protection: Wear safety goggles

Skin Protection: Use solvent resistant gloves and long-sleeved clothing.

Respiratory Protection: If airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied air respirator with a full-face piece during application. After application use CCR (Chemical Cartridge Respirator).

Personal Hygiene: Avoid rubbing eyes during handling. Wear chemical tight goggles or full-face shield. Use good personal hygiene practices to avoid incidental ingestion.

Engineering Controls/Work Practices

Ventilation: Provide local exhaust or area ventilation to maintain concentration of vapors below TLV. Use explosion proof ventilation equipment. Take care not to draw vapors into non-explosion proof or spark generating equipment or into occupied office areas or enclosed areas with inhabitants.

Other: Source of clean water should be available in the work area for flushing eyes and skin. Wash thoroughly with soap and water after use and before eating, smoking and using toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|--|
| Appearance: Clear viscous liquid | Octanol/Water Coefficient: Log K = ND |
| Odor: Typical solvent odor | Vapor Pressure: ND |
| Physical state: Viscous liquid | Vapor Density (air=1): > air |
| PH: Not applicable | Percent Volatile by Volume: 45 - 55 |
| DOT Corrosivity: Not applicable | Volatile Organic Content: < 400 g/liter |
| Boiling Point: 284 to 500 F | Molecular Weight: NA |
| Melting Point: NA | Average Carbon Number: NA |
| Specific Gravity: 1.05 | Viscosity @ 100°F °: NA |
| Pour Point: NA | Viscosity@ 40° C: NA |
| Solubility in Water: Negligible | |

10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable under normal conditions. Avoid heat, sparks, flames

Conditions to Avoid: Avoid contact with strong oxidizing materials and bases. Avoid contact with water.

Incompatible Materials to Avoid: Strong oxidizers. Alkali metals.

11. TOXICOLOGICAL INFORMATION (will only print available data)

Primary Eye Irritation: Irritating **Primary Skin Irritation:** Irritating

Oral Toxicity:

Mutagenicity: NA

Carcinogenicity:

Diisocyanates are suspect carcinogens. When ingested, diisocyanates have caused cancer in certain animals.

No other toxicological information available

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Not known.

Terrestrial Toxicity: Not known

Chemical Fate and Transport: Not known.

No other ecological information available

13. DISPOSAL INFORMATION

Regulatory Information: Consult all regulations (federal, state, provincial, local etc.) or a qualified waste disposal firm when characterizing waste for disposal.

Waste Disposal Methods: Mix the chemical with an inert material such as sand, vermiculite, etc. and place in a suitable container. Dispose of in accordance with federal, state and local environmental control laws.

14. TRANSPORTATION INFORMATION

This section is provided to assist in the basic domestic DOT shipping classification of this product and does not contain all regulatory transportation details. Review all applicable domestic air and vessel and all international air, vessel and ground transportation regulations for other requirements and restrictions

| | |
|---------------------------------|--|
| DOT Basic Description: | Paint |
| Hazard Class: | 3 |
| UN Number: | UN 1263 |
| Packing Group: | III |
| Description: | Flammable Liquid, n.o.s. |
| IATA UN Number: | UN 1263 |
| IATA Air Shipping Name: | Paint |
| IATA Hazard Class: | 3 |
| IATA Packing Group: | III |
| IATA / IMDG Description: | UN1263, Paint, Class 3, PG III, Flammable Liquid |

15. REGULATORY INFORMATION

Regulatory Lists

U.S. TSCA Inventory:

All components of this material are on the US TSCA Inventory or exempt from listing on the TSCA Inventory.

SARA 311/312 Categories

Acute: Yes **Chronic:** Yes **Fire:** Yes **Pressure:** Yes **Reactive:** Yes

Sara Section 313: This product contains the following Sara, Title III, Section 313 Chemicals:

| Chemical Name | CAS Number |
|------------------------------|------------|
| Xylene | 1330-20-7 |
| Aromatic hydrocarbon solvent | 64742-95-6 |
| Aliphatic diisocyanate | 5124-30-1 |

Regulatory Lists Searched

Health & Safety:

Environmental: NA

International: NA

State: FI, MA, MN, PA, RI

National Inventories: NA

California Proposition 65 Information: Warning! This product contains detectable components, including the following components, which are substances or belong to classes of substances, known to the State of California to cause cancer, birth defects and/or other reproductive toxicity.

| Chemical Name | CAS Number |
|------------------------------|------------|
| Xylene | 1330-20-7 |
| Aromatic hydrocarbon solvent | 64742-95-6 |
| Aliphatic diisocyanate | 5124-30-1 |

Canadian Regulations

DSL/NDL: The components of this product are listed on the Canadian Domestic Substances List (DSL) or Non- Domestic Substance List (NDL).

WHMIS Hazard Class: B3 D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Other Regulations: No other information available

16. OTHER INFORMATION

HMIS ratings – Health: 2 Flammability: 3 Reactivity: 1 Personal Protection: G

DISCLAIMER: The information contained herein is accurate to the best of our knowledge and belief. However, the conditions of handling and use are beyond our control and we make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. This data and information is furnished upon the condition that the person receiving it shall make his own determination of the conditions for safe use of this product.

Legend: N.A. – Not Applicable, N.E. – Not Established, N.D. – Not Determined

MSDS Revisions Previous Version Date: 07/05/12 Revision Date: 07/11/17