

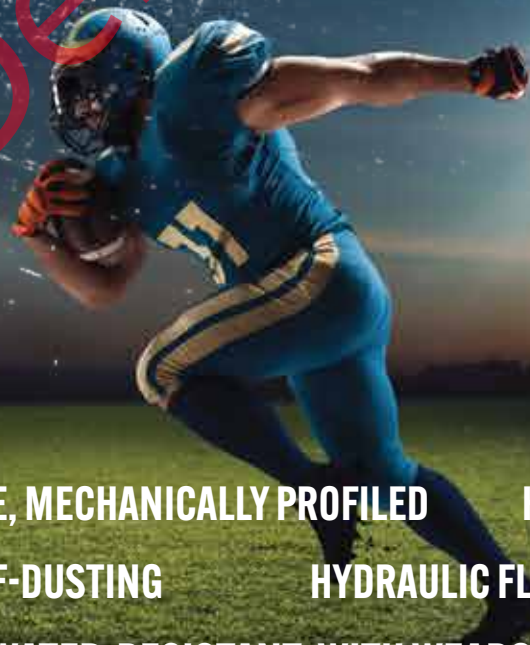


# MAX

## DEFENSE SYSTEM



**CONCRETE FLOORS BEST GAME PLAN**



**SUPERIOR PERFORMANCE, MECHANICALLY PROFILED**

**PREVENTS CONCRETE OFF-DUSTING**

**HIGHLY ABRASION-RESISTANT**

**HYDRAULIC FLUID, SALT & STAIN RESISTANT**

**WATER-RESISTANT, WITH WEARGUARD**

MaxDefense SDS PAC



# MAX DEFENSE SYSTEM

**Green Umbrella Max Defense System™** wins a high-performance architectural concrete floor with products designed to play well together. Created for owners and design professionals who have experienced the failure of products that do not team well. A system for the success of interior polished concrete @MatureAge™. Using a GreenCut Abrasives System that includes a surface refinement cutting agent, GreenCut™. Profiled with the use of PowerTrowels or Grinders with production rates that seem unfair compared to the completion. Processed using selected GC abrasives - BigStock™, GC-X™, GC-Fusion™, GCEraser™, and GCPolishPlus™ - to create a superior mechanical foundation defense with any specified class of profile or gloss. The Max Defense System first covers the field with DryShield™, our highly abrasion-resistant flagship densifier that fills the concrete void. Shield & Enhance™ is next in the lineup to protect from salt with superior stain protection. Then bringing a fantastic finish with Interior Microfilm™, a repairable wear-guard that brings clarity to the profile. Max Defense promotes bonding and cross-linking within the concrete without the negative side-effect of ASR or topical de-lamination found with other products. Maintain with GreenClean™, a LifeCycle™ cleaner with densifier built in. All of this is “concrete’s best game plan”.

**GreenCut™** is a *Neutral Nano Surface Profile Agent*. Used in applications where conventional laborious processing was specified but where a more refined surface and reduction in product treatment is desired.

**DryShield™** is a *Penetrating Completely Reactive Hydrophilic Insoluble Nano Densifier* for interior or exterior. Green Umbrella’s our flagship cross-over densifier DryShield for use in applications where a high-abrasion resistant and value-engineered treatment is needed.

**Shield & Enhance™** basic use is a *Penetrating Completely Reactive Silane Modified Densifier* for interior or exterior. Used in applications where basic hardeners are specified but where a color guard that will prevent oxidization, not simply a color inhibitor— with the highest stain chloride intrusion, stain and salt protection, and high-performance concrete hardener is desired.

**Interior Microfilm™** is a *Penetrating Reactive Interior Microfinish for Profiled Surfaces* for interior surfaces only. Used in applications where basic stain guards are specified but where a more permeant, reactive, and high-performance treatment is desired.

## SYSTEM SPECIFICATION



GREENUMBRELLA  
**FULLSPEC**




|   |  |                             |                  |                  |
|---|--|-----------------------------|------------------|------------------|
| <b>PROFILE TREATMENT</b>                              |   | <b>GREENCUT</b>             |                  |                  |
| <b>PROFILE</b>  |   | <b>GC BIGSTOCK</b>          | <b>GC X</b>      | <b>GC FUSION</b> |
| <b>HONE</b>   |   | <b>GC ERASER</b>            | <b>GC FUSION</b> |                  |
| <b>DENSIFIER/HARDNER TREATMENT</b>                    |  | <b>DRYSHIELD</b>            |                  |                  |
| <b>POLISH</b>   |   | <b>GC POLISH PLUS</b>       |                  |                  |
| <b>SALT TREATMENT</b>                                 |   | <b>SHIELD &amp; ENHANCE</b> |                  |                  |
| <b>PENETRATING &amp; REPAIRABLE SURFACE TREATMENT</b> |  | <b>INTERIOR MICROFILM</b>   |                  |                  |


# SAFETY DATA SHEET



## Section 1. Product and Company Identification

|                           |   |  |
|---------------------------|---|--|
| PRODUCT NAME:             | GreenCut  |  |
| PRODUCT USE:              | Neutral Nano Surface Profile Agent  |  |
| EFFECTIVE DATE:           | October 2021  |  |
| MANUFACTURER INFORMATION: |  <b>GREENUMBRELLA®</b><br>Architectural Concrete Systems                       | Green Umbrella<br>20 Jetview Drive Rochester, NY 14624<br>(844) 200-7336 |
| EMERGENCY PHONE NUMBER:   | For Hazardous Materials [or Dangerous Goods]<br>Incident Spill, Leak, Fire, Exposure, or Accident<br>Call CHEMTREC 24 Hours<br>1-800-424-9300 / +1 703-527-3887 | CCN: 871558  |

## Section 2. Hazard Identification

|                  |  |
|------------------|--|
| GHS PICTOGRAMS:  |   |
| GHS SIGNAL WORD: | WARNING.<br>This product is alkaline. Avoid contact with eyes and skin.<br>Keep out of reach of children.<br>The product may be harmful if it is inhaled or swallowed. |

### POTENTIAL HEALTH EFFECTS CODE OF HAZARD STATEMENTS:

#### Physical Hazards

None

#### Health Hazards

H303 May be harmful if swallowed.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation.  
H333 May be harmful if inhaled.

#### Environmental Hazards

None

## Section 2. Hazard Identification (Continued)

### CODE OF PRECAUTIONARY STATEMENTS:

#### General

P101-Keep out of reach of children.

P103-Read label before use.

#### Prevention Statements

P202-Do not handle until all safety precautions have been read and understood.

P262-Do not get in eyes, on skin or on clothing.

P264-Wash thoroughly after handling using this product.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P284-Wear respiratory protection.

#### Response Statements

P312-Call a POISON CENTER or doctor/physician if you feel unwell.

P331-DO NOT induce vomiting.

P340-Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P352-Wash with plenty of soap and water.

P362-Take off contaminated clothing and wash before reuse.

#### Storage

P403-Store in well-ventilated place.

P404-Store in a closed container.

P412-Do not expose to temperatures exceeding 60 °C (140 °F)

ROUTES OF ENTRY:

Eye contact, skin adsorption, ingestion and inhalation.

CARCINOGENICITY:

None know at this time.

## Section 3. Ingredients and Hazards Identification

| Component   | CAS # | EINECS No | % by weight | REACH |
|-------------|-------|-----------|-------------|-------|
| Proprietary | Prop. | Prop.     | >1          | Yes   |
| Proprietary | Prop. | Prop.     | >1          | Yes   |
| Proprietary | Prop. | Prop.     | < 1         | No    |
| Proprietary | Prop. | Prop.     | < 1         | No    |
| Proprietary | Prop. | Prop.     | < 1         | No    |

\*Undisclosed ingredients are withheld as trade secrets

## Section 4. First Aid Measures

EYE CONTACT:

Flush eyes with water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT:

Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse.

INHALATION:

Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.

INGESTION:

If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

## Section 5. Fire Fighting Measures

|                                   |   |
|-----------------------------------|---|
| FLASH POINT:                      | Not flammable   |
| FLAMMABILITY LIMITS:              | NE  |
| FIRE FIGHTING MEDIA:              | Dry chemical, carbon dioxide, and water spray.  |
| SPECIAL FIRE FIGHTING PROCEDURES: | First responders need to wear full-bunker gear with SCBA, never enter a confined space unless fully protected with proper personal protective equipment (PPE). Material is alkaline and may cause the floor to be slippery. |

## Section 6. Accidental Release Measures

|                      |   |
|----------------------|---|
| CLEAN-UP PROCEDURES: | Material is alkaline wear proper PPE. Stop the source of the release if you are not put at risk. Use absorbent material (such as sand or kitty litter) to absorb the spill, use plastic shovel to pick up absorbent for disposal. |
| SPIILLS AND LEAKS:   | Dispose in accordance to local, state or federal regulations.   |

## Section 7. Handling and Storage

|           |  |
|-----------|--|
| HANDLING: | Do not get into eyes. Do not taste or swallow. Wash thoroughly after handling.                 |
| STORAGE:  | Store in original labeled container. Keep in cool and dry areas. Do not exceed 60 °C (140 °F). |

## Section 8. Exposure Control/Personal Protection

|                             |   |
|-----------------------------|---|
| INTRODUCTORY REMARKS:       | Consider the potential hazards of this product outlined in section 3. Use process exposures such as local exhaust ventilation, to control over exposure to airborne levels above recommended exposure limits. |
| <b>PERSONAL PROTECTION:</b> |   |
| EYES:                       | Wear safety goggles or safety glasses to prevent eye contact.   |
| BODY:                       | Long sleeve shirts, long pants, socks, rubber boots and chemical resistant gloves.  |
| HANDS:                      | Chemical resistant gloves.  |
| RESPIRATORY:                | Wear an approved respirator (NIOSH TC-84A rated or EN 14387) that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.                                |

## Section 9. Physical and Chemical Properties

|                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| <b>Odor/Color</b>           | Odorless/white, dries clear | <b>Vapor Pressure</b>    | > 2.2 torr @ 68° F (20° C) |
| <b>pH</b>                   | 6-7                         | <b>Density (water=1)</b> | > 1.0 @ 68°F (20 °C)       |
| <b>% volatile by weight</b> | < 50g/L                     | <b>Solubility</b>        | 100 % in water             |
| <b>Evaporation rate</b>     | < 1.0                       | <b>Boiling Point</b>     | 212°F (100°C)              |

## Section 10. Stability and Reactivity

CHEMICAL STABILITY:

Considered stable under normal ambient temperatures.

HAZARDOUS  
DECOMPOSITION:

If complete combustion, oxides of carbon and silicates are formed.

HAZARDOUS  
POLYMERIZATION:

Will not occur.

INCOMPATIBILITY/  
MATERIALS TO AVOID:

May react with strong oxidizing agents and strong acids.

## Section 11. Toxicological Information

ACUTE EYE IRRITATION:

Irritating.

ACUTE SKIN IRRITATION:

Chronic exposure may be irritating.

ACUTE DERMAL TOXICITY:

Not expected to be toxic through the skin.

ACUTE INHALATION  
TOXICITY:

Not determined, expected to be an irritant to the respiratory system.

CARCINOGENIC EFFECTS:

None

EXISTING MEDICAL  
CONDITIONS AGGRAVATED  
BY EXPOSURE:

Exposure to eyes and skin may cause irritation to pre-existing conditions.

## Section 12. Ecological Information

ECOTOXICITY:

The toxicity of this product has not been determined.

ENVIRONMENTAL FATE:

This product should be expected to be readily biodegradable.

## Section 13. Disposal Considerations

WASTE DISPOSAL  
METHOD:

Whatever cannot be saved for recovery or recycling should be managed by the local, state or Federal regulations.

CONTAINER HANDLING  
AND DISPOSAL:

All containers should be triple rinsed and disposed of according to local, state and Federal regulations.

## Section 14. Transport Information

|                          |                         |
|--------------------------|-------------------------|
| GROUND CLASSIFICATION:   | Not regulated by US DOT |
| SHIPPING NAME:           | None                    |
| TECHNICAL SHIPPING NAME: | None                    |
| UNFIC:                   | None                    |
| ID NUMBER:               | None                    |
| PACKAGING GROUP:         | None                    |
| LABELS:                  | No US DOT Labels        |

**Not regulated by IATA or IMO**

## Section 15. Regulatory Information

|                                  |                                   |     |
|----------------------------------|-----------------------------------|-----|
| <b>EPCRA 311/312 CATEGORIES:</b> | Immediate (Acute) Health Effects: | Yes |
|                                  | Delayed (Chronic) Health Effects: | Yes |
|                                  | Fire Hazard:                      | No  |
|                                  | Sudden Release of Pressure:       | No  |
|                                  | Reactivity:                       | No  |

**EUROPEAN COMMUNITY:**



irritating (Xi) substances

|                               |  |
|-------------------------------|--|
| RIGHT TO KNOW CLASSIFICATION: | Lithium polysilicate is listed in NJ.          |
| TSCA:                         | All ingredients listed or exempt from listing. |
| REPORTABLE QUANTITY (RQ):     | None   |
| PROP. 65:                     | None listed                                    |
| WHMIS:                        | Xi (Irritant to the eyes and skin)             |

All ingredients are listed as chemical inventories of ACIS, ECL, EEC, ENCS, EU, Israel, MAC, MAK, MITI, PICCS, SWISS, Taiwan, USA and UK

### ABBREVIATIONS:

|        |  |        |  |
|--------|--|--------|--|
| CAS #  | Chemical Abstract Service Number   | EINECS | European Inventory of existing Commercial Chemical Sales |
| °C     | Celsius temperature scale  | °F     | Fahrenheit temperature scale                             |
| Prop.  | Proprietary  | PE     | Personal Protective Equipment                            |
| TLV    | Threshold Limit Value  | TWA    | Time Weighted Average                                    |
| STEL   | Short-term Exposure Limit  | PEL    | Permissible Exposure Limit                               |
| OSHA   | Occupational Safety & Health   | NIOSH  | National Institute of Safety & Health                    |
| NFPA   | National Fire Protection Agency  | WHMIS  | Workplace Hazardous Materials Information System         |
| NTP    | National Toxicology Program  | IARC   | Int. Agency for Research on Cancer                       |
| RCRA   | Resource Conservation Recovery Act   | TSCA   | Toxic Substance Control Act                              |
| EC50   | Effective Dose   | LC50   | Lethal Inhalation Concentration                          |
| LD50   | Lethal Dose  | CAS    | Chemical Abstract Service Number                         |
| LEL    | Lower explosive limit  | UEP    | Upper explosive limit                                    |
| NDA    | No Data Available  | ND     | Not determined   |
| NE     | None established   | NA     | Not Applicable   |
| <      | Less Than or Equal To  | >      | Greater Than or Equal To                                 |
| CNS    | Central Nervous System   | CI     | China  |
| DSL    | Canada   | ECL    | Korean Existing Chemicals List                           |
| EEC    | European Economic Commission   | ENCS   | Japanese Existing and New Chemical List                  |
| EU     | European Union   | MAC    | Netherlands  |
| MAK    | Germany  | MITI   | Japan  |
| PICCS  | Philippines  | SWISS  | Giftlist 1   |
| UK     | United Kingdom   | USA    | United States  |
| VOC    | Volatile organic content   | ACGIH  | American Conference of Government Industrial Hygienists  |
| SARA   | Superfund Amendments and Reauthorization Act   |        |  |
| AICS   | Australian Inventory of Chemical Substances  |        |  |
| IARC   | International Agency for Research on Cancer  |        |  |
| Taiwan | List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086 |        |  |

## Section 16. Other Information

| HAZARDOUS MATERIAL INFORMATION (HMIS) |   | NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) |   |
|---------------------------------------|---|---|---|
| Health                                | 1 | Health                                      | 1 |
| Fire                                  | 1 | Fire  | 1 |
| Reactivity                            | 0 | Instability                                 | 0 |
| Personal Protection                   | C | NA  |   |

| HEALTH           | FIRE            | REACTIVITY/ INSTABILITY | RISK PHRASES: R36, IRRITATING TO EYES; R37, IRRITATING TO RESPIRATORY SYSTEM; AND R38, IRRITATING TO SKIN.  |
|------------------|-----------------|-------------------------|---|
| 4 Deadly         | 4 <73°C         | 4 May Detonate          | <b>SAFETY PHRASES:</b> S2, KEEP OUT OF REACH OF CHILDREN; S24, AVOID CONTACT WITH SKIN; S25, AVOID CONTACT WITH EYES; S37, WEAR SUITABLE GLOVES; AND S39, WEAR EYE/FACE PROTECTION. |
| 3 Extreme Danger | 3 <100°C        | 3 Explosive             |   |
| 2 Dangerous      | 2 <200°C        | 2 Unstable              |   |
| 1 Slight Hazard  | 1 >200°C        | 1 Normally Stable       |   |
| 0 No Hazard      | 0 Will Not burn | 0 Stable                |   |

**DISCLAIMER:**


The information is furnished without warranty, representation, inducement, or license of any kind, except that it is accurate to the best of Green Umbrellas' knowledge. Because use conditions and applicable laws may differ from one location to another and may change with time, recipient is responsible for determining whether the information is appropriate for recipient's use. Since company has no control over how this information may be ultimately used, all liability is expressly disclaimed and company assumes no liability.




# SAFETY DATA SHEET

# GREENUMBRELLA® DRYSHIELD

## Section 1. Product and Company Identification

|                           |   |
|---------------------------|---|
| PRODUCT NAME:             | DryShield   |
| PRODUCT USE:              | Penetrating Completely Reactive Hydrophilic Insoluble Nano Densifier  |
| EFFECTIVE DATE:           | October 2021  |
| MANUFACTURER INFORMATION: |  <b>GREENUMBRELLA®</b><br>Architectural Concrete Systems<br>Green Umbrella<br>20 Jetview Drive Rochester, NY 14624<br>(844) 200-7336 |
| EMERGENCY PHONE NUMBER:   | For Hazardous Materials [or Dangerous Goods]<br>Incident Spill, Leak, Fire, Exposure, or Accident<br>Call CHEMTREC 24 Hours<br>1-800-424-9300 / +1 703-527-3887      CCN: 871558                                      |

## Section 2. Hazard Identification

|                  |  |
|------------------|--|
| GHS PICTOGRAMS:  |   |
| GHS SIGNAL WORD: | WARNING.<br>This product is alkaline. Avoid contact with eyes and skin.<br>Keep out of reach of children.<br>The product may be harmful if it is inhaled or swallowed. |

### POTENTIAL HEALTH EFFECTS CODE OF HAZARD STATEMENTS:

#### Physical Hazards

None

#### Health Hazards

H303 May be harmful if swallowed.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation.  
H333 May be harmful if inhaled.

#### Environmental Hazards

None

## Section 2. Hazard Identification (Continued)

### CODE OF PRECAUTIONARY STATEMENTS:

#### General

P101-Keep out of reach of children.

P103-Read label before use.

#### Prevention Statements

P202-Do not handle until all safety precautions have been read and understood.

P262-Do not get in eyes, on skin or on clothing.

P264-Wash thoroughly after handling using this product.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P284-Wear respiratory protection.

#### Response Statements

P312-Call a POISON CENTER or doctor/physician if you feel unwell.

P331-DO NOT induce vomiting.

P340-Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P352-Wash with plenty of soap and water.

P362-Take off contaminated clothing and wash before reuse.

#### Storage

P403-Store in well-ventilated place.

P404-Store in a closed container.

P412-Do not expose to temperatures exceeding 60 °C (140 °F)

ROUTES OF ENTRY:

Eye contact, skin adsorption, ingestion and inhalation.

CARCINOGENICITY:

None know at this time.

## Section 3. Ingredients and Hazards Identification

| Component   | CAS # | EINECS No | % by weight | REACH Reg # |
|-------------|-------|-----------|-------------|-------------|
| Proprietary | Prop. | Prop.     | >1          | Yes         |
| Proprietary | Prop. | Prop.     | >1          | Yes         |
| Proprietary | Prop. | Prop.     | <1          | No          |
| Proprietary | Prop. | Prop.     | <1          | No          |
| Proprietary | Prop. | Prop.     | <1          | No          |

\*Undisclosed ingredients are withheld as trade secrets

## Section 4. First Aid Measures

EYE CONTACT:

Flush eyes with water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT:

Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse.

INHALATION:

Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.

INGESTION:

If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

## Section 5. Fire Fighting Measures

|                                   |   |
|-----------------------------------|---|
| FLASH POINT:                      | Not flammable   |
| FLAMMABILITY LIMITS:              | NE  |
| FIRE FIGHTING MEDIA:              | Dry chemical, carbon dioxide, and water spray.  |
| SPECIAL FIRE FIGHTING PROCEDURES: | First responders need to wear full-bunker gear with SCBA, never enter a confined space unless fully protected with proper personal protective equipment (PPE). Material is alkaline and may cause the floor to be slippery. |

## Section 6. Accidental Release Measures

|                      |   |
|----------------------|---|
| CLEAN-UP PROCEDURES: | Material is alkaline wear proper PPE. Stop the source of the release if you are not put at risk. Use absorbent material (such as sand or kitty litter) to absorb the spill, use plastic shovel to pick up absorbent for disposal. |
| SPIILLS AND LEAKS:   | Dispose in accordance to local, state or federal regulations.   |

## Section 7. Handling and Storage

|           |  |
|-----------|--|
| HANDLING: | Do not get into eyes. Do not taste or swallow. Wash thoroughly after handling.                 |
| STORAGE:  | Store in original labeled container. Keep in cool and dry areas. Do not exceed 60 °C (140 °F). |

## Section 8. Exposure Control/Personal Protection

|                             |   |
|-----------------------------|---|
| INTRODUCTORY REMARKS:       | Consider the potential hazards of this product outlined in section 3. Use process exposures such as local exhaust ventilation, to control over exposure to airborne levels above recommended exposure limits. |
| <b>PERSONAL PROTECTION:</b> |   |
| EYES:                       | Wear safety goggles or safety glasses to prevent eye contact.   |
| BODY:                       | Long sleeve shirts, long pants, socks, rubber boots and chemical resistant gloves.  |
| HANDS:                      | Chemical resistant gloves.  |
| RESPIRATORY:                | Wear an approved respirator (NIOSH TC-84A rated or EN 14387) that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.                                |

## Section 9. Physical and Chemical Properties

|                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| <b>Odor/Color</b>           | Odorless/white, dries clear | <b>Vapor Pressure</b>    | > 2.2 torr @ 68° F (20° C) |
| <b>pH</b>                   | 6-9                         | <b>Density (water=1)</b> | > 1.0 @ 68°F (20 °C)       |
| <b>% volatile by weight</b> | < 50g/L                     | <b>Solubility</b>        | 100% in water              |
| <b>Evaporation rate</b>     | > 1.0                       | <b>Boiling Point</b>     | 212°F (100°C)              |

## Section 10. Stability and Reactivity

|                                     |  |
|-------------------------------------|--|
| CHEMICAL STABILITY:                 | Considered stable under normal ambient temperatures.               |
| HAZARDOUS DECOMPOSITION:            | If complete combustion, oxides of carbon and silicates are formed. |
| HAZARDOUS POLYMERIZATION:           | Will not occur.  |
| INCOMPATIBILITY/MATERIALS TO AVOID: | May react with strong oxidizing agents and strong acids.           |

## Section 11. Toxicological Information

|   |  |
|---|--|
| ACUTE EYE IRRITATION:                               | Irritating.  |
| ACUTE SKIN IRRITATION:                              | Chronic exposure may be irritating.  |
| ACUTE DERMAL TOXICITY:                              | Not expected to be toxic through the skin.                                 |
| ACUTE INHALATION TOXICITY:                          | Not determined, expected to be an irritant to the respiratory system.      |
| CARCINOGENIC EFFECTS:                               | None   |
| EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: | Exposure to eyes and skin may cause irritation to pre-existing conditions. |

## Section 12. Ecological Information

|                     |  |
|---------------------|--|
| ECOTOXICITY:        | The toxicity of this product has not been determined.        |
| ENVIRONMENTAL FATE: | This product should be expected to be readily biodegradable. |

## Section 13. Disposal Considerations

|                                  |  |
|----------------------------------|--|
| WASTE DISPOSAL METHOD:           | Whatever cannot be saved for recovery or recycling should be managed by the local, state or Federal regulations. |
| CONTAINER HANDLING AND DISPOSAL: | All containers should be triple rinsed and disposed of according to local, state and Federal regulations.        |

## Section 14. Transport Information

|                          |                         |
|--------------------------|-------------------------|
| GROUND CLASSIFICATION:   | Not regulated by US DOT |
| SHIPPING NAME:           | None                    |
| TECHNICAL SHIPPING NAME: | None                    |
| UNFIC:                   | None                    |
| ID NUMBER:               | None                    |
| PACKAGING GROUP:         | None                    |
| LABELS:                  | No US DOT Labels        |

**Not regulated by IATA or IMO**

## Section 15. Regulatory Information

|                                  |                                   |     |
|----------------------------------|-----------------------------------|-----|
| <b>EPCRA 311/312 CATEGORIES:</b> | Immediate (Acute) Health Effects: | Yes |
|                                  | Delayed (Chronic) Health Effects: | Yes |
|                                  | Fire Hazard:                      | No  |
|                                  | Sudden Release of Pressure:       | No  |
|                                  | Reactivity:                       | No  |

**EUROPEAN COMMUNITY:**



irritating (Xi) substances

|                               |  |
|-------------------------------|--|
| RIGHT TO KNOW CLASSIFICATION: | One ingredient is listed in PA, MA and MN.     |
| TSCA:                         | All ingredients listed or exempt from listing. |
| REPORTABLE QUANTITY (RQ):     | None   |
| PROP. 65:                     | None listed                                    |
| WHMIS:                        | Xi (Irritant to the eyes and skin)             |

All ingredients are listed as chemical inventories of ACIS, ECL, EEC, ENCS, EU, Israel, MAC, MAK, MITI, PICCS, SWISS, Taiwan, USA and UK

### ABBREVIATIONS:

|        |  |        |  |
|--------|--|--------|--|
| CAS #  | Chemical Abstract Service Number   | EINECS | European Inventory of existing Commercial Chemical Sales |
| °C     | Celsius temperature scale  | °F     | Fahrenheit temperature scale                             |
| Prop.  | Proprietary  | PE     | Personal Protective Equipment                            |
| TLV    | Threshold Limit Value  | TWA    | Time Weighted Average                                    |
| STEL   | Short-term Exposure Limit  | PEL    | Permissible Exposure Limit                               |
| OSHA   | Occupational Safety & Health   | NIOSH  | National Institute of Safety & Health                    |
| NFPA   | National Fire Protection Agency  | WHMIS  | Workplace Hazardous Materials Information System         |
| NTP    | National Toxicology Program  | IARC   | Int. Agency for Research on Cancer                       |
| RCRA   | Resource Conservation Recovery Act   | TSCA   | Toxic Substance Control Act                              |
| EC50   | Effective Dose   | LC50   | Lethal Inhalation Concentration                          |
| LD50   | Lethal Dose  | CAS    | Chemical Abstract Service Number                         |
| LEL    | Lower explosive limit  | UEP    | Upper explosive limit                                    |
| NDA    | No Data Available  | ND     | Not determined   |
| NE     | None established   | NA     | Not Applicable   |
| <      | Less Than or Equal To  | >      | Greater Than or Equal To                                 |
| CNS    | Central Nervous System   | CI     | China  |
| DSL    | Canada   | ECL    | Korean Existing Chemicals List                           |
| EEC    | European Economic Commission   | ENCS   | Japanese Existing and New Chemical List                  |
| EU     | European Union   | MAC    | Netherlands  |
| MAK    | Germany  | MITI   | Japan  |
| PICCS  | Philippines  | SWISS  | Giftlist 1   |
| UK     | United Kingdom   | USA    | United States  |
| VOC    | Volatile organic content   | ACGIH  | American Conference of Government Industrial Hygienists  |
| SARA   | Superfund Amendments and Reauthorization Act   |        |  |
| AICS   | Australian Inventory of Chemical Substances  |        |  |
| IARC   | International Agency for Research on Cancer  |        |  |
| Taiwan | List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086 |        |  |

## Section 16. Other Information

| HAZARDOUS MATERIAL INFORMATION (HMIS) |   |  | NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) |   |
|---------------------------------------|---|--|---|---|
| Health                                | 1 |  | Health                                      | 1 |
| Fire                                  | 1 |  | Fire  | 1 |
| Reactivity                            | 0 |  | Instability                                 | 0 |
| Personal Protection                   | C |  | NA  |   |

| HEALTH           | FIRE            | REACTIVITY/ INSTABILITY | RISK PHRASES: R36, IRRITATING TO EYES; R37, IRRITATING TO RESPIRATORY SYSTEM; AND R38, IRRITATING TO SKIN.  |
|------------------|-----------------|-------------------------|---|
| 4 Deadly         | 4 <73°C         | 4 May Detonate          | <b>SAFETY PHRASES:</b> S2, KEEP OUT OF REACH OF CHILDREN; S24, AVOID CONTACT WITH SKIN; S25, AVOID CONTACT WITH EYES; S37, WEAR SUITABLE GLOVES; AND S39, WEAR EYE/FACE PROTECTION. |
| 3 Extreme Danger | 3 <100°C        | 3 Explosive             |   |
| 2 Dangerous      | 2 <200°C        | 2 Unstable              |   |
| 1 Slight Hazard  | 1 >200°C        | 1 Normally Stable       |   |
| 0 No Hazard      | 0 Will Not burn | 0 Stable                |   |

**DISCLAIMER:**

The information is furnished without warranty, representation, inducement, or license of any kind, except that it is accurate to the best of Green Umbrellas' knowledge. Because use conditions and applicable laws may differ from one location to another and may change with time, recipient is responsible for determining whether the information is appropriate for recipient's use. Since company has no control over how this information may be ultimately used, all liability is expressly disclaimed and company assumes no liability.


# SAFETY DATA SHEET

## GREEN UMBRELLA® SHIELD & ENHANCE

### Section 1. Product and Company Identification

|                           |   |  |
|---------------------------|---|--|
| PRODUCT NAME:             | Shield & Enhance  |  |
| PRODUCT USE:              | Penetrating Completely Reactive Color Enhancement Silane Modified Densifier   |  |
| EFFECTIVE DATE:           | October 2021  |  |
| MANUFACTURER INFORMATION: |  <b>GREEN UMBRELLA®</b><br>Architectural Concrete Systems                      | Green Umbrella<br>20 Jetview Drive Rochester, NY 14624<br>(844) 200-7336 |
| EMERGENCY PHONE NUMBER:   | For Hazardous Materials [or Dangerous Goods]<br>Incident Spill, Leak, Fire, Exposure, or Accident<br>Call CHEMTREC 24 Hours<br>1-800-424-9300 / +1 703-527-3887 | CCN: 871558  |

### Section 2. Hazard Identification

|                  |  |
|------------------|--|
| GHS PICTOGRAMS:  |   |
| GHS SIGNAL WORD: | WARNING.<br>This product is alkaline. Avoid contact with eyes and skin.<br>Keep out of reach of children.<br>The product may be harmful if it is inhaled or swallowed. |

#### POTENTIAL HEALTH EFFECTS CODE OF HAZARD STATEMENTS:

##### Physical Hazards

None

##### Health Hazards

H303 May be harmful if swallowed.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation.  
H333 May be harmful if inhaled.

##### Environmental Hazards

None

## Section 2. Hazard Identification (Continued)

### CODE OF PRECAUTIONARY STATEMENTS:

#### General

P101 Keep out of reach of children.

P103 Read label before use.

#### Prevention Statements

P202 Do not handle until all safety precautions have been read and understood.

P262 Do not get in eyes, on skin or on clothing.

P264 Wash thoroughly after handling using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection.

#### Response Statements

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P331 DO NOT induce vomiting.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P352 Wash with plenty of soap and water.

P362 Take off contaminated clothing and wash before reuse.

#### Storage: KEEP FROM FREEZING

P403 Store in well-ventilated place.

P404 Store in a closed container.

ROUTES OF ENTRY:

Eye contact, skin contact, ingestion and inhalation.

CARCINOGENICITY:

None known at this time.

## Section 3. Ingredients and Hazards Identification

| Component   | CAS #       | EINECS No   | OSHA PEL    | ACGIH TLV   | Percent     |
|-------------|-------------|-------------|-------------|-------------|-------------|
| Proprietary | Proprietary | Proprietary | Proprietary | Proprietary | Proprietary |
| Proprietary | Proprietary | Proprietary | NE          | NE          | Proprietary |
| Water       | 7732-18-5   | 231-791-5   | NE          | NE          | Balance     |

\*Undisclosed ingredients are withheld as trade secrets

## Section 4. First Aid Measures

EYE CONTACT:

Flush eyes with water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT:

Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse.

INHALATION:

Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.

INGESTION:

If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.



## Section 5. Fire Fighting Measures

|                                   |   |
|-----------------------------------|---|
| FLASH POINT:                      | Not flammable   |
| FLAMMABILITY LIMITS:              | NE  |
| FIRE FIGHTING MEDIA:              | Dry chemical, carbon dioxide, and water spray.  |
| SPECIAL FIRE FIGHTING PROCEDURES: | First responders need to wear full-bunker gear with SCBA, never enter a confined space unless fully protected with proper personal protective equipment (PPE). Material is alkaline and may cause the floor to be slippery. |

## Section 6. Accidental Release Measures

|                      |   |
|----------------------|---|
| CLEAN-UP PROCEDURES: | Material is alkaline wear proper PPE. Stop the source of the release if you are not put at risk. Use absorbent material (such as sand) to absorb the spill, use plastic shovel to pick up absorbent for disposal. |
| SPILLS AND LEAKS:    | Dispose in accordance to local, state or federal regulations.   |

## Section 7. Handling and Storage

|           |  |
|-----------|--|
| HANDLING: | Do not get into eyes. Do not taste or swallow. Wash thoroughly after handling.       |
| STORAGE:  | Store in original labeled container. Keep in cool and dry areas. Keep from freezing. |

## Section 8. Exposure Control/Personal Protection

|                             |   |
|-----------------------------|---|
| INTRODUCTORY REMARKS:       | Consider the potential hazards of this product outlined in section 3. Use process exposures such as local exhaust ventilation, to control over exposure to airborne levels above recommended exposure limits. |
| <b>PERSONAL PROTECTION:</b> |   |
| EYES:                       | Wear safety goggles or safety glasses to prevent eye contact.   |
| BODY:                       | Long sleeve shirts, long pants, socks, rubber boots and chemical resistant gloves.  |
| HANDS:                      | Chemical resistant gloves.  |
| RESPIRATORY:                | Wear an approved respirator that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.   |

## Section 9. Physical and Chemical Properties

|                   |                      |                                   |                            |
|-------------------|----------------------|-----------------------------------|----------------------------|
| <b>Odor/Color</b> | Odorless/Clear White | <b>Vapor Pressure</b>             | < 2.2 torr @ 68° F (20° C) |
| <b>pH</b>         | 11.2                 | <b>Density (water=1)</b>          | >1.040 @ 68F (20C)         |
| <b>VOC</b>        | < 50g/L              | <b>Boiling Point</b>              | 212°F (100°C)              |
| <b>Solubility</b> | 100% in water        | <b>Evaporation Rate (water=1)</b> | > 1.0                      |

## Section 10. Stability and Reactivity

CHEMICAL STABILITY:

Considered stable under normal ambient temperatures.

HAZARDOUS  
DECOMPOSITION:

If complete combustion, oxides of carbon and silicates are formed.

HAZARDOUS  
POLYMERIZATION:

Will not occur.

INCOMPATIBILITY/  
MATERIALS TO AVOID:

May react with strong oxidizing agents and strong acids.

## Section 11. Toxicological Information

ACUTE EYE IRRITATION:

Irritating.

ACUTE SKIN IRRITATION:

Chronic exposure may be irritating.

ACUTE DERMAL TOXICITY:

Not expected to be toxic through the skin.

ACUTE INHALATION  
TOXICITY:

Not determined, expected to be an irritant to the respiratory system.

CARCINOGENIC EFFECTS:

None

EXISTING MEDICAL  
CONDITIONS AGGRAVATED  
BY EXPOSURE:

Exposure to eyes and skin may cause irritation to pre-existing conditions.

## Section 12. Ecological Information

ECOTOXICITY:

The toxicity of this product has not been determined.

ENVIRONMENTAL FATE:

This product should be expected to be readily biodegradable.

## Section 13. Disposal Considerations

WASTE DISPOSAL  
METHOD:

Whatever cannot be saved for recovery or recycling should be managed by the local, state or Federal regulations.

CONTAINER HANDLING  
AND DISPOSAL:

All containers should be triple rinsed and disposed of according to local, state and Federal regulations.

## Section 14. Transport Information

**DO NOT FREEZE**

|                          |   |
|--------------------------|---|
| GROUND CLASSIFICATION:   | Not regulated by US DOT   |
| SHIPPING NAME:           | Shield & Enhance  |
| TECHNICAL SHIPPING NAME: | Penetrating Completely Reactive Color Enhancement Silane Modified Densifier |
| UNFIC:                   | None  |
| ID NUMBER:               | None  |
| PACKAGING GROUP:         | None  |
| LABELS:                  | No US DOT Labels  |

**Not regulated by IATA or IMO**

## Section 15. Regulatory Information

|                                  |                                   |     |
|----------------------------------|-----------------------------------|-----|
| <b>EPCRA 311/312 CATEGORIES:</b> | Immediate (Acute) Health Effects: | Yes |
|                                  | Delayed (Chronic) Health Effects: | Yes |
|                                  | Fire Hazard:                      | No  |
|                                  | Sudden Release of Pressure:       | No  |
|                                  | Reactivity:                       | No  |

**EUROPEAN COMMUNITY:**



irritating (Xi) substances

|                               |  |
|-------------------------------|--|
| RIGHT TO KNOW CLASSIFICATION: | All ingredients are listed in CA, FL, PA, MA, MI, MN and NJ. |
| TSCA:                         | All ingredients listed or exempt from listing.               |
| REPORTABLE QUANTITY (RQ):     | None   |
| PROP. 65:                     | None listed  |
| WHMIS:                        | Xi (Irritant to the eyes and skin)                           |

All ingredients are listed in chemical inventories of ACIS, ECL, EEC, ENCS, EU, Israel, MAC, MAK, MITI, PICCS, SWISS, Taiwan, USA and UK

### ABBREVIATIONS:

|        |  |        |  |
|--------|--|--------|--|
| CAS #  | Chemical Abstract Service Number   | EINECS | European Inventory of existing Commercial Chemical Sales |
| °C     | Celsius temperature scale  | °F     | Fahrenheit temperature scale                             |
| Prop.  | Proprietary  | PE     | Personal Protective Equipment                            |
| TLV    | Threshold Limit Value  | TWA    | Time Weighted Average                                    |
| STEL   | Short-term Exposure Limit  | PEL    | Permissible Exposure Limit                               |
| OSHA   | Occupational Safety & Health   | NIOSH  | National Institute of Safety & Health                    |
| NFPA   | National Fire Protection Agency  | WHMIS  | Workplace Hazardous Materials Information System         |
| NTP    | National Toxicology Program  | IARC   | Int. Agency for Research on Cancer                       |
| RCRA   | Resource Conservation Recovery Act   | TSCA   | Toxic Substance Control Act                              |
| EC50   | Effective Dose   | LC50   | Lethal Inhalation Concentration                          |
| LD50   | Lethal Dose  | CAS    | Chemical Abstract Service Number                         |
| LEL    | Lower explosive limit  | UEP    | Upper explosive limit                                    |
| NDA    | No Data Available  | ND     | Not determined   |
| NE     | None established   | NA     | Not Applicable   |
| <      | Less Than or Equal To  | >      | Greater Than or Equal To                                 |
| CNS    | Central Nervous System   | CI     | China  |
| DSL    | Canada   | ECL    | Korean Existing Chemicals List                           |
| EEC    | European Economic Commission   | ENCS   | Japanese Existing and New Chemical List                  |
| EU     | European Union   | MAC    | Netherlands  |
| MAK    | Germany  | MITI   | Japan  |
| PICCS  | Philippines  | SWISS  | Giftlist 1   |
| UK     | United Kingdom   | USA    | United States  |
| VOC    | Volatile organic content   | ACGIH  | American Conference of Government Industrial Hygienists  |
| SARA   | Superfund Amendments and Reauthorization Act   |        |  |
| AICS   | Australian Inventory of Chemical Substances  |        |  |
| IARC   | International Agency for Research on Cancer  |        |  |
| Taiwan | List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086 |        |  |

## Section 16. Other Information

| HAZARDOUS MATERIAL INFORMATION (HMIS) |   | NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) |   |
|---------------------------------------|---|---|---|
| Health                                | 1 | Health                                      | 1 |
| Fire                                  | 0 | Fire  | 0 |
| Reactivity                            | 0 | Instability                                 | 0 |
| Personal Protection                   | C | NA  |   |

| HEALTH           | FIRE            | REACTIVITY/ INSTABILITY | RISK PHRASES: R36, IRRITATING TO EYES; R37, IRRITATING TO RESPIRATORY SYSTEM; AND R38, IRRITATING TO SKIN.  |
|------------------|-----------------|-------------------------|---|
| 4 Deadly         | 4 <73°C         | 4 May Detonate          | <b>SAFETY PHRASES:</b> S2, KEEP OUT OF REACH OF CHILDREN; S24, AVOID CONTACT WITH SKIN; S25, AVOID CONTACT WITH EYES; S37, WEAR SUITABLE GLOVES; AND S39, WEAR EYE/FACE PROTECTION. |
| 3 Extreme Danger | 3 <100°C        | 3 Explosive             |   |
| 2 Dangerous      | 2 <200°C        | 2 Unstable              |   |
| 1 Slight Hazard  | 1 >200°C        | 1 Normally Stable       |   |
| 0 No Hazard      | 0 Will Not burn | 0 Stable                |   |

**DISCLAIMER:**

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# SAFETY DATA SHEET

## GREENUMBRELLA® INTERIOR MICROFILM

### Section 1. Product and Company Identification

|                           |  |  |  |
|---------------------------|--|--|--|
| PRODUCT NAME:             | Interior MicroFilm   |  |  |
| PRODUCT USE:              | Penetrating Reactive Interior Microfinish for Profiled Surfaces  |  |  |
| EFFECTIVE DATE:           | October 2021   |  |  |
| MANUFACTURER INFORMATION: |  <b>GREENUMBRELLA®</b><br>Architectural Concrete Systems  | Green Umbrella<br>20 Jetview Drive Rochester, NY 14624<br>(844) 200-7336 |  |
| EMERGENCY PHONE NUMBER:   | For Hazardous Materials [or Dangerous Goods]<br>Incident Spill, Leak, Fire, Exposure, or Accident<br>Call CHEMTREC 24 Hours<br>1-800-424-9300 / +1 703-527-3887      CCN: 871558 |  |  |

### Section 2. Hazard Identification

|                  |  |
|------------------|--|
| GHS PICTOGRAMS:  |   |
| GHS SIGNAL WORD: | WARNING.<br>This product is alkaline. Avoid contact with eyes and skin.<br>Keep out of reach of children.<br>The product may be harmful if it is inhaled or swallowed. |

#### POTENTIAL HEALTH EFFECTS CODE OF HAZARD STATEMENTS:

##### Physical Hazards

None

##### Health Hazards

H303 May be harmful if swallowed.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation.  
H333 May be harmful if inhaled.

##### Environmental Hazards

None

## Section 2. Hazard Identification (Continued)

### CODE OF PRECAUTIONARY STATEMENTS:

#### General

P101-Keep out of reach of children.

P103-Read label before use.

#### Prevention Statements

P202-Do not handle until all safety precautions have been read and understood.

P262-Do not get in eyes, on skin or on clothing.

P264-Wash thoroughly after handling using this product.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P284-Wear respiratory protection.

#### Response Statements

P312-Call a POISON CENTER or doctor/physician if you feel unwell.

P331-DO NOT induce vomiting.

P340-Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P352-Wash with plenty of soap and water.

P362-Take off contaminated clothing and wash before reuse.

#### Storage

P403-Store in well-ventilated place.

P404-Store in a closed container.

P412-Do not expose to temperatures exceeding 60 °C (140 °F)

ROUTES OF ENTRY:

Eye contact, skin adsorption, ingestion and inhalation.

CARCINOGENICITY:

None know at this time.

## Section 3. Ingredients and Hazards Identification

| Component   | CAS #      | EINECS No | % by weight | REACH |
|-------------|------------|-----------|-------------|-------|
| Proprietary | 12627-14-4 | 235-730-0 | >9          | Yes   |
| Proprietary | Prop.      | Prop.     | < 1         | Yes   |
| Proprietary | Prop.      | Prop.     | < 1         | No    |
| Proprietary | Prop.      | Prop.     | < 1         | No    |
| Proprietary | Prop.      | Prop.     | < 1         | No    |
| Proprietary | Prop.      | Prop.     | < 1         | Yes   |
| Proprietary | Prop.      | Prop.     | < 1         | Yes   |

\*Undisclosed ingredients are withheld as trade secrets

## Section 4. First Aid Measures

EYE CONTACT:

Flush eyes with water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT:

Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse.

INHALATION:

Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.

INGESTION:

If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

## Section 5. Fire Fighting Measures

|                                   |   |
|-----------------------------------|---|
| FLASH POINT:                      | Not flammable   |
| FLAMMABILITY LIMITS:              | NE  |
| FIRE FIGHTING MEDIA:              | Dry chemical, carbon dioxide, and water spray.  |
| SPECIAL FIRE FIGHTING PROCEDURES: | First responders need to wear full-bunker gear with SCBA, never enter a confined space unless fully protected with proper personal protective equipment (PPE). Material is alkaline and may cause the floor to be slippery. |

## Section 6. Accidental Release Measures

|                      |   |
|----------------------|---|
| CLEAN-UP PROCEDURES: | Material is alkaline wear proper PPE. Stop the source of the release if you are not put at risk. Use absorbent material (such as sand or kitty litter) to absorb the spill, use plastic shovel to pick up absorbent for disposal. |
| SPIILLS AND LEAKS:   | Dispose in accordance to local, state or federal regulations.   |

## Section 7. Handling and Storage

|           |  |
|-----------|--|
| HANDLING: | Do not get into eyes. Do not taste or swallow. Wash thoroughly after handling.                 |
| STORAGE:  | Store in original labeled container. Keep in cool and dry areas. Do not exceed 60 °C (140 °F). |

## Section 8. Exposure Control/Personal Protection

|                             |   |
|-----------------------------|---|
| INTRODUCTORY REMARKS:       | Consider the potential hazards of this product outlined in section 3. Use process exposures such as local exhaust ventilation, to control over exposure to airborne levels above recommended exposure limits. |
| <b>PERSONAL PROTECTION:</b> |   |
| EYES:                       | Wear safety goggles or safety glasses to prevent eye contact.   |
| BODY:                       | Long sleeve shirts, long pants, socks, rubber boots and chemical resistant gloves.  |
| HANDS:                      | Chemical resistant gloves.  |
| RESPIRATORY:                | Wear an approved respirator (NIOSH TC-84A rated or EN 14387) that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.                                |

## Section 9. Physical and Chemical Properties

|                             |  |                          |                            |
|-----------------------------|--|--------------------------|----------------------------|
| <b>Odor/Color</b>           | Slight ammonia-like/<br>White, dries clear | <b>Vapor Pressure</b>    | > 2.2 torr @ 68° F (20° C) |
| <b>pH</b>                   | 11-12                                      | <b>Density (water=1)</b> | > 1.0 @ 68°F (20 °C)       |
| <b>% volatile by weight</b> | < 50g/L                                    | <b>Solubility</b>        | >95 % in water             |
| <b>Evaporation rate</b>     | < 1.0                                      | <b>Boiling Point</b>     | 212°F (100°C)              |

## Section 10. Stability and Reactivity

CHEMICAL STABILITY:

Considered stable under normal ambient temperatures.

HAZARDOUS  
DECOMPOSITION:

If complete combustion, oxides of carbon and silicates are formed.

HAZARDOUS  
POLYMERIZATION:

Will not occur.

INCOMPATIBILITY/  
MATERIALS TO AVOID:

May react with strong oxidizing agents and strong acids.

## Section 11. Toxicological Information

ACUTE EYE IRRITATION:

Irritating.

ACUTE SKIN IRRITATION:

Chronic exposure may be irritating.

ACUTE DERMAL TOXICITY:

Not expected to be toxic through the skin.

ACUTE INHALATION  
TOXICITY:

Not determined, expected to be an irritant to the respiratory system.

CARCINOGENIC EFFECTS:

None

EXISTING MEDICAL  
CONDITIONS AGGRAVATED  
BY EXPOSURE:

Exposure to eyes and skin may cause irritation to pre-existing conditions.

## Section 12. Ecological Information

ECOTOXICITY:

The toxicity of this product has not been determined.

ENVIRONMENTAL FATE:

This product should be expected to be readily biodegradable.

## Section 13. Disposal Considerations

WASTE DISPOSAL  
METHOD:

Whatever cannot be saved for recovery or recycling should be managed by the local, state or Federal regulations.

CONTAINER HANDLING  
AND DISPOSAL:

All containers should be triple rinsed and disposed of according to local, state and Federal regulations.



## Section 14. Transport Information

|                          |                         |
|--------------------------|-------------------------|
| GROUND CLASSIFICATION:   | Not regulated by US DOT |
| SHIPPING NAME:           | None                    |
| TECHNICAL SHIPPING NAME: | None                    |
| UNFIC:                   | None                    |
| ID NUMBER:               | None                    |
| PACKAGING GROUP:         | None                    |
| LABELS:                  | No US DOT Labels        |

**Not regulated by IATA or IMO**

## Section 15. Regulatory Information

|                                  |                                   |     |
|----------------------------------|-----------------------------------|-----|
| <b>EPCRA 311/312 CATEGORIES:</b> | Immediate (Acute) Health Effects: | Yes |
|                                  | Delayed (Chronic) Health Effects: | Yes |
|                                  | Fire Hazard:                      | No  |
|                                  | Sudden Release of Pressure:       | No  |
|                                  | Reactivity:                       | No  |

**EUROPEAN COMMUNITY:**



irritating (Xi) substances

|                               |  |
|-------------------------------|--|
| RIGHT TO KNOW CLASSIFICATION: | Lithium polysilicate is listed in NJ.          |
| TSCA:                         | All ingredients listed or exempt from listing. |
| REPORTABLE QUANTITY (RQ):     | None   |
| PROP. 65:                     | None listed                                    |
| WHMIS:                        | Xi (Irritant to the eyes and skin)             |

All ingredients are listed as chemical inventories of ACIS, ECL, EEC, ENCS, EU, Israel, MAC, MAK, MITI, PICCS, SWISS, Taiwan, USA and UK

### ABBREVIATIONS:

|        |  |        |  |
|--------|--|--------|--|
| CAS #  | Chemical Abstract Service Number   | EINECS | European Inventory of existing Commercial Chemical Sales |
| °C     | Celsius temperature scale  | °F     | Fahrenheit temperature scale                             |
| Prop.  | Proprietary  | PE     | Personal Protective Equipment                            |
| TLV    | Threshold Limit Value  | TWA    | Time Weighted Average                                    |
| STEL   | Short-term Exposure Limit  | PEL    | Permissible Exposure Limit                               |
| OSHA   | Occupational Safety & Health   | NIOSH  | National Institute of Safety & Health                    |
| NFPA   | National Fire Protection Agency  | WHMIS  | Workplace Hazardous Materials Information System         |
| NTP    | National Toxicology Program  | IARC   | Int. Agency for Research on Cancer                       |
| RCRA   | Resource Conservation Recovery Act   | TSCA   | Toxic Substance Control Act                              |
| EC50   | Effective Dose   | LC50   | Lethal Inhalation Concentration                          |
| LD50   | Lethal Dose  | CAS    | Chemical Abstract Service Number                         |
| LEL    | Lower explosive limit  | UEP    | Upper explosive limit                                    |
| NDA    | No Data Available  | ND     | Not determined   |
| NE     | None established   | NA     | Not Applicable   |
| <      | Less Than or Equal To  | >      | Greater Than or Equal To                                 |
| CNS    | Central Nervous System   | CI     | China  |
| DSL    | Canada   | ECL    | Korean Existing Chemicals List                           |
| EEC    | European Economic Commission   | ENCS   | Japanese Existing and New Chemical List                  |
| EU     | European Union   | MAC    | Netherlands  |
| MAK    | Germany  | MITI   | Japan  |
| PICCS  | Philippines  | SWISS  | Giftlist 1   |
| UK     | United Kingdom   | USA    | United States  |
| VOC    | Volatile organic content   | ACGIH  | American Conference of Government Industrial Hygienists  |
| SARA   | Superfund Amendments and Reauthorization Act   |        |  |
| AICS   | Australian Inventory of Chemical Substances  |        |  |
| IARC   | International Agency for Research on Cancer  |        |  |
| Taiwan | List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086 |        |  |

## Section 16. Other Information

| HAZARDOUS MATERIAL INFORMATION (HMIS) |   | NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) |   |
|---------------------------------------|---|---|---|
| Health                                | 1 | Health                                      | 1 |
| Fire                                  | 1 | Fire  | 1 |
| Reactivity                            | 0 | Instability                                 | 0 |
| Personal Protection                   | C | NA  |   |

| HEALTH           | FIRE            | REACTIVITY/ INSTABILITY | RISK PHRASES: R36, IRRITATING TO EYES; R37, IRRITATING TO RESPIRATORY SYSTEM; AND R38, IRRITATING TO SKIN.  |
|------------------|-----------------|-------------------------|---|
| 4 Deadly         | 4 <73°C         | 4 May Detonate          | <b>SAFETY PHRASES:</b> S2, KEEP OUT OF REACH OF CHILDREN; S24, AVOID CONTACT WITH SKIN; S25, AVOID CONTACT WITH EYES; S37, WEAR SUITABLE GLOVES; AND S39, WEAR EYE/FACE PROTECTION. |
| 3 Extreme Danger | 3 <100°C        | 3 Explosive             |   |
| 2 Dangerous      | 2 <200°C        | 2 Unstable              |   |
| 1 Slight Hazard  | 1 >200°C        | 1 Normally Stable       |   |
| 0 No Hazard      | 0 Will Not burn | 0 Stable                |   |

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