

GREEN UMBRELLA®

BASE

DEFENSE SYSTEM

COVER YOUR BASES



VALUE-ENGINEERED, MECHANICALLY PROFILED
PREVENTS CONCRETE OFF-DUSTING

HIGHLY ABRASION-RESISTANT
WATER-RESISTANT, WITH WEARGUARD



BASE DEFENSE SYSTEM

Green Umbrella Base Defense System™ is a basic entry-level, complete system for interior architectural concrete floors to be abrasively processed @MatureAge™. Starting with a wet process and a liquid surface refinement cutting agent, GreenCut™. Profile with the use of power trowels or grinders. Various GC abrasives of BigStock™, GC-X™, GC-Fusion™, GC Eraser™, and GC PolishPlus™ play ball with any specified class of profile or gloss. Base Defense™ first covers the field with DryShield, our highly abrasion-resistant flagship densifier that fills the concrete voids—than bringing a home run finish with the Interior Microfilm™. This repairable wear-guard brings clarity to the profile. Finally, Base Defense promotes bonding and cross-linking within the concrete without the negative side-effect of ASR or topical de-lamination. Next, use GreenClean™ a Lifecycle™, a maintenance cleaner with a densifier built creates a daily defense for the floor. All of this to cover the bases.

SYSTEM SPECIFICATION

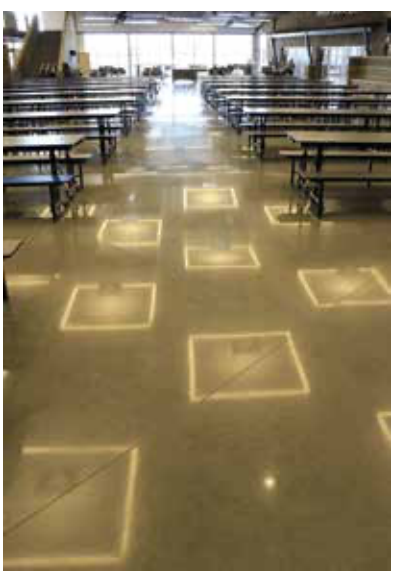


GREEN UMBRELLA FULLSPEC

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.

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.




PROFILE TREATMENT 	GREENCUT		
PROFILE  	GC BIGSTOCK	GC X	GC FUSION
HONE  	GC ERASER	GC FUSION	
DENSIFIER/HARDNER TREATMENT 	DRYSHIELD		
POLISH  	GC POLISH PLUS		
PENETRATING & REPAIRABLE SURFACE TREATMENT  	INTERIOR MICROFILM		

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:	 GREENUMBRELLA® Architectural Concrete Systems Green Umbrella 20 Jetview Drive Rochester, NY 14624 (844) 200-7336
EMERGENCY PHONE NUMBER:	For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 24 Hours 1-800-424-9300 / +1 703-527-3887 CCN: 871558

Section 2. Hazard Identification

GHS PICTOGRAMS:	
GHS SIGNAL WORD:	WARNING. This product is alkaline. Avoid contact with eyes and skin. Keep out of reach of children. 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.
PERSONAL PROTECTION:	
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

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

EPCRA 311/312 CATEGORIES:	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	Giftliste 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	SAFETY PHRASES: 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:



Green Umbrella
20 Jetview Drive Rochester, NY 14624
(844) 200-7336

EMERGENCY PHONE
NUMBER:

For Hazardous Materials [or Dangerous Goods]
Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC 24 Hours

1-800-424-9300 / +1 703-527-3887

CCN: 871558

Section 2. Hazard Identification

GHS PICTOGRAMS:



GHS SIGNAL WORD:

WARNING.

This product is alkaline. Avoid contact with eyes and skin.
Keep out of reach of children.
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.
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. 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.
PERSONAL PROTECTION:	
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

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

EPCRA 311/312 CATEGORIES:	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	SAFETY PHRASES: 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® 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:	 GREENUMBRELLA® Architectural Concrete Systems	Green Umbrella 20 Jetview Drive Rochester, NY 14624 (844) 200-7336	
EMERGENCY PHONE NUMBER:	For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 24 Hours 1-800-424-9300 / +1 703-527-3887 CCN: 871558		

Section 2. Hazard Identification

GHS PICTOGRAMS:	
GHS SIGNAL WORD:	WARNING. This product is alkaline. Avoid contact with eyes and skin. Keep out of reach of children. 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.
PERSONAL PROTECTION:	
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

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

EPCRA 311/312 CATEGORIES:	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	Giftliste 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	SAFETY PHRASES: 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.