


SAFETY DATA SHEET

GREEN UMBRELLA® SHIELD & PROTECT

Section 1. Product and Company Identification

PRODUCT NAME:	Shield & Protect
PRODUCT USE:	Concrete Chemical Hardener & Salt Resistant Sealer
EFFECTIVE DATE:	October 2021
MANUFACTURER INFORMATION:	 GREEN UMBRELLA® 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: KEEP FROM FREEZING

P403 Store in well-ventilated place.

P404 Store in a closed container.

ROUTES OF ENTRY:

Eye contact, skin absorption, 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.
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 that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.

Section 9. Physical and Chemical Properties

Odor/Color	Odorless/Clear White	Vapor Pressure	< 2.2 torr @ 68° F (20° C)
pH	11.2	Density (water=1)	>1.040 @ 68F (20C)
VOC	< 50g/L	Boiling Point	212°F (100°C)
Solubility	100% in water	Evaporation Rate (water=1)	> 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 & Protect
TECHNICAL SHIPPING NAME:	Concrete Densifier & Sealer
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:	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	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	

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