

**REFLECTIVE FLOOR**  
ARCHITECTURAL POLISHED CONCRETE SYSTEMS

Effective Date: January 01, 2021

Supersedes: NEW

**1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION**

Product Name: ReflectiHARD Concrete Densifier  
Product Use: Concrete hardener, densifier, and sealer

Manufacturer: Reflective Floor  
7240 Standard Drive  
Hanover, MD 21076  
(667) 701-1700

Emergency Medical Telephone (24h): INFOTRAC 1-800-535-5053 (US & Canada) 1-352-323-3500 (International)

**2. HAZARD(S) IDENTIFICATION**

Hazard Pictogram:



**GHS Signal Word:** WARNING

**Hazards Summary:** 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

**CODE OF PRECAUTIONARY STATEMENTS:**

**GENERAL**

- P101: Keep out of reach of children.
- P103: Read label before use.

**PREVENTION**

- 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**

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.

**ROUTES OF ENTRY:** Eye contact, skin adsorption, ingestion, and inhalation.

**CARCINOGENICITY:** None known at this time.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENT	CAS #	EINECS No.	% by Weight	REACH
Amorphous Colloidal Silicates	Proprietary	Proprietary	10-20	N/A
Surfactant Blend	Proprietary	Proprietary	<1	N/A
Water	7732-18-5	231-791-5	Balance	N/A

\*Undisclosed ingredients are withheld as trade secrets.

**4. FIRST AID MEASURES**

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

*Skin:* Use soap and water to remove from 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.

**5. FIRE FIGHTING MEASURES**

*Flash Point:* Not flammable

*Flammability Limits:* NE

*Extinguishing Media:* Dry chemical, carbon dioxide, and water spray

*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.

**6. ACCIDENTAL RELEASE MEASURES**

*Clean-up Procedures:* Material is alkaline, wear proper PPE. Stop the source of release if you are not put at risk. Use absorbent material (such as sand &/or cat litter) to absorb the spill, use plastic shovel to pick up absorbent for disposal. Do not dispose of in storm drains or sewer systems.

*Spills and leaks:* Dispose in accordance to local, state or federal regulations.

**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.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<i>Introductory remarks:</i>	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 the recommended exposure limits.
<i>Respiratory protection:</i>	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.
<i>Hand Protection:</i>	Chemical resistant gloves.
<i>Eye Protection:</i>	Safety goggles/glasses to prevent eye contact.
<i>Skin Protection:</i>	Long sleeve shirts, long pants, socks, rubber boots and chemical resistant gloves.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color/ Odor/Form:</b>	Slight/Clear/Liquid	<b>Vapor Pressure:</b>	<2.2 torr @ 68 °F (20 °C)
<b>pH:</b>	10.7	<b>Density (water=1)</b>	1.04 @ 68 °F (20 °C)
<b>VOC:</b>	<50 g/L	<b>Solubility:</b>	>95 % in water
<b>Evaporation rate (water =1)</b>	<1.0	<b>Boiling Point:</b>	212 °F (100 °C)
<b>Freezing Point:</b>	32 °F (0 °C)	<b>Vapor Density (air=1)</b>	>1

**10. STABILITY AND REACTIVITY**

<i>Chemical Stability:</i>	Considered stable under normal ambient temperatures.
<i>Hazardous Decomposition:</i>	If complete combustion, oxides of carbon and silicate are formed.
<i>Hazardous Polymerization:</i>	Will not occur.
<i>Incompatible Materials To Avoid:</i>	May react with strong oxidizing agents and strong acids.

**11. TOXICOLOGICAL INFORMATION**

<i>Acute Eye Irritation:</i>	Irritating.
<i>Acute Skin Irritation:</i>	Chronic exposure may be irritating.
<i>Acute Dermal Toxicity:</i>	Not expected to be toxic through the skin.
<i>Acute Inhalation Toxicity:</i>	Not determined. Expected to be an irritant to the respiratory system.
<i>Carcinogenic Effects:</i>	None.
<i>Existing Medical Conditions</i>	
<i>Aggravated by Exposure:</i>	Exposure to eyes and skin may cause irritation to pre-existing conditions.

**12. ECOLOGICAL INFORMATION**

<i>Ecotoxicity:</i>	The toxicity of this product has not been determined.
<i>Environmental Fate:</i>	This product should be expected to be readily biodegradable.

**13. DISPOSAL**

<i>Waste Disposal:</i>	Use up or dry out left over material and dispose of per regulations. Do not dump in storm drains or sewers.
<i>Container Handling:</i>	All containers should dispose of in accordance with all local, state, and federal regulations. Readily recyclable once cleaned.

**14. TRANSPORTATION INFORMATION**

<i>Ground Classification.:</i>	Not regulated by US DOT
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*Shipping Name:* ReflectiHARD Concrete Densifier  
*Typical Shipping Name:* None  
*UNFIC:* None  
*ID Number:* None  
*Packaging Group:* None  
*Labels:* No US DOT Labels  
 Not Regulated by IATA or IMO

## 15. REGULATION


*EPCRA 311/312 Categories:* Immediate (Acute) Health Effects: Yes  
 Delayed (Chronic) Health Effects: Yes  
 Fire Hazard: No  
 Sudden Release of Pressure: No  
 Reactivity: No

*Right to Know Classification:* All ingredients are listed in CA, FL, MA, MI, MN, PA, and NJ.

*TSCA:* All of the ingredients listed or exempt from listing.

*Reportable Quantity (RQ):* None.

*Prop. 65:* None.

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	PEL	Permissible Exposure Limit
OSHA	Occupational Safety & Health	NIOSH	National Institute of Safety & Health
NFPA	National Fire Protection Agency	WHMIS	Workplace Hazardous Materials Info 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
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		

**16. OTHER INFORMATION**

Hazardous Material Information (HMIS)

National Fire Protection Association (NFPA)

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C



Health (Blue)

- 4 - Deadly
- 3 - Extreme Danger
- 2 - Dangerous
- 1 - Slight Hazard
- 0 - No Hazard

Fire (Red)

- 4 - < 73 °C
- 3 - < 100 °C
- 2 - < 200 °C
- 1 - > 200 °C
- 0 - Will not Burn

Reactivity/Instability (Yellow)

- 4 - May Detonate
- 3 - Explosive
- 2 - Unstable
- 1 - Normal Stable
- 0 - Stable

- Risk phrases:* R36: Irritating to eyes  
 R37: Irritating to respiratory system  
 R38: Irritating to skin.
- Safety phrases:* S2: Keep out of reach of children  
 S24: Avoid contact with skin  
 S25: Avoid contact with eyes  
 S37: Wear suitable gloves  
 S39: Wear eye/face protection.

Disclaimer: The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate based on the data available. The manufacturer makes no warranty expressed or implied regarding the accuracy, results or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. Accordingly, we assume no responsibility for injury from the use of this product. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Data Sheet

Date Prepared: May 17, 2022