

Effective Date: November 09, 2022

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

Other Hazards: Components do not meet the criteria for a PBT or vPvB substance(s).

CODE OF PRECAUTIONARY STATEMENTS:

GENERAL

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read carefully and follow all instructions.

PREVENTION

P203: Obtain, read and follow all instructions before use.

P260: Do not breath breath dust/mist/spray, if inhalable particles of dust/mist/spray may occur during use.

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

P264: Wash hands, face, arms, any exposed skin thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective chemical resistant neoprene gloves, protective clothing that covers any exposed skin, safety eyeglasses or goggles with side shields.

P284: Wear respiratory protection.

RESPONSE

P301 + P316: IF SWALLOWED: Get emergency medical help immediately by calling 911, emergency room (ER) or similar, &/or doctor.

P301 + P330 + P331: IF SWALLOWED: Rinse Mouth. Do NOT induce vomiting.

P302 + P352: IF ON SKIN: Wash with plenty of water. Use soap if available.

P304 + P317: IF INHALED: Get medical help.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts lenses, if present and easy to do. Continue rinsing.

P337 + P317: If eye irritation persists: Get medical help.

P331: Do NOT induce vomiting.

P362 + P364: Take off contaminated clothing and wash before reuse.

STORAGE

P404: Store in a closed container.

DISPOSAL

P501: Dispose contents/containers in accordance with all local, state, or national regulations. Readily recyclable once cleaned. Consult an accredited waste disposal contractor or authority for advice.

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	7631-86-9	Proprietary	25-35	N/A
Surfactant Blend	Trade Secret	Trade Secret	65-75	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. Use an Eye Wash Station if one is provided. Skin: Thoroughly wash exposed skin with plenty of soap and water. Remove contaminated clothing. Wash clothing 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. Rinse mouth. Do NOT induce vomiting.

5. FIRE FIGHTING MEASURES

Flash Point: Not flammable / Non-Combustible.

Flammability Limits: None anticipated.

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

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 materials (such as SlurryDRY, sand, cat litter, berms, etc.) to absorb the spillage. Use gloves and any tools to pick up absorbent and transfer to a suitable container for disposal. Wash area with water. Do not dispose of or allow

spillage to run into storm drains or sewer systems.

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

7. HANDLING AND STORAGE

Handling: Avoid generation of airborne respirable particles. Avoid getting in eyes. Avoid skin

contact. Do not taste or swallow. Wash thoroughly after handling.

Storage: Store in original labeled container. Keep in cool and dry areas. Do NOT allow

product to freeze. Store above 41°F and below 95°F. Colloidal silica is a freeze sensitive material. If allowed to freeze, the product will irreversibly agglomerate or gel. If the product has been frozen, it will most likely be rendered useless and must be disposed of. If exposed to high storage temperature for extended periods, the shelf life of the product may be shortened. To reduce temperature effects to colloidal silica products and maximize shelf life, they should be stored at a recommended storage temperature of 68°F. Ambient conditions of +40°F to 95°F are generally also

acceptable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering: Use exhaust ventilation to control airborne concentration levels to remain below

the recommended exposure limits.

Respiratory Protection: 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.

Hand Protection: Chemical resistant, impervious (neoprene) gloves.

Eye Protection: Safety goggles, glasses, &/or face shields to prevent eye contact.

Skin Protection: Long sleeve shirts, long pants, socks, rubber boots and chemical resistant gloves.

Working Hygiene: Take precautions when handling. Wash hands/exposed skin with soap and water

before eating, drinking, or smoking. Wash contaminated clothing before reuse.

Environmental: Proper disposal techniques to isolate and recover material should be implemented.

Do not allow to enter drains, sewers, or watercourses.

		LRTE	IDLH		
SUBSTANCE	CAS#	PEL (OSHA)	TLV (ACGIH)	NIOSH (REL)	ACGIH
Silica	7631-86-9	80/% SiO2 mg/m3		6 mg/m3	3,000 mg/m3

LTEL: Long Term Exposure Limit; IDLH: Immediately Dangerous to Life and Health

9. PHYSICAL AND CHEMICAL PROPERTIES

Color / Appearance / Odor:	White / Liquid / None	Vapor Pressure (Pascal):	Similar to Water
pH:	10 -11	Solubility:	Miscible
VOC:	Not Determined	Density (g/ml):	1.20 – 1.25
Evaporation Rate:	Not Determined	Flash Point:	Non-Combustible
Freezing Point:	32°F (0°C)	Boiling Point:	212°F (100°C)

10. STABILITY AND REACTIVITY

Chemical Stability: Considered stable under normal ambient temperatures.

Hazardous Decomposition: None anticipated. Hazardous Polymerization: Will not occur.

Incompatible Materials To Avoid: Gels when mixed with acids. May react with strong oxidizing agent.

11. TOXICOLOGICAL INFORMATION

Exposure Routes: Skin Contact, Eye Contact

Information on Toxicological Effects: Amorphous Silica (CAS# 7631-86-9)

Acute Toxicity: Oral: LD50 > 5000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rabbit)

Inhalation LC50 >5.01 mg/L (5010 mg/m3) as a respirable dust (rat)

Acute Toxicity: Unlikely to cause skin irritation. Unlikely to cause eye irritation.

Irritation/Corrosivity: It is not a skin sensitizer.

Sensitization: None anticipated

Repeated Dose Toxicity: There is no evidence of mutagenic potential.

Mutagenicity: Oral rat – No evidence of a carcinogenic effect at 2000 mg/kg for 2 years.

Carcinogenicity: It is unlikely to present a carcinogenic hazard to man.

Developmental Toxicity: Oral hamster – no effects observed at 1600 mg/kg

Oral rat- no effects observed at 1000 mg/kg in a 2-generation reproductive/

developmental study.

Toxicity for Reproduction: Oral rat- no effects observed at 1000 mg/kg in a 2-generation reproductive/

developmental study.

Other Information: NTP: No IARC: No ACGIH: No OSHA: No

12. ECOLOGICAL INFORMATION

Substances in Preparations / Mixtures: Amorphous Silica (CAS# 7631-86-9)

Acute Toxicity: LC50 (96 hour): >500 mg/l (Fish)

EC50 (48 hour): >10,000 mg/l (Aquatic invertebrates)

EC50 (72 hour): >173 mg/l (Algae)

Long-Term Toxicity: 21 Day NOEC: >100 mg/l (Aquatic invertebrates)

Persistence and Degradability: The product is a synthetic version of a naturally occurring mineral.

Bio accumulative Potential: The substance has low potential for bioaccumulation.

Mobility in Soil: The substance has low mobility in soil. Results of PBT and vPvB Assessment: Not classified as PBT or vPvB

Other Adverse Effects: None known.

13. DISPOSAL

Waste Disposal: Use up or dry out left over material and dispose of per regulations. Do not dump

in storm drains or sewers.

Container Handling: All containers should be disposed of in accordance with all local, state, and federal

regulations. Readily recyclable once cleaned. Consult an accredited waste disposal

contractor or the local authority for advice.

14. TRANSPORTATION INFORMATION

Ground Classification: Not regulated by US DOT

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: Unknown

EPA TSCA Inventory: All components listed as Active.0

Reportable Quantity (40 CFR 302.4): None SARA 311/312 - Hazard Categories: None SARA 313 - Toxic Chemicals (40 CFR 372): None

SARA 302 - Extremely Hazardous Substances (40 CFR 355): None

California Prop. 65: None

Worldwide Chemical Inventories: All ingredients are listed.

ABBREVIATIONS:

INE VIA I IC	7113.				
CAS#	Chemical Abstract Service Number	EINECS	European Inventory of Existing Commercial Chemical Sales		
°C	Celsius temperature scale	٥F	Fahrenheit temperature scale		
Prop.	Proprietary	PPE	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			Tromplace Hazardous Haterials Hills		
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	LEL	Lower explosive limit		
UEP	Upper explosive limit	NDA	No Data Available		
ND	Not determined	NE	None established		
NA	Not Applicable	<	Less Than		
>	Greater Than	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 regula	ated unde	r Taiwan Toxic Chemical Substances Control Act of 1		

16. OTHER INFORMATION

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 Section

Date Prepared: September 11, 2024

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