



REFLECTIVE FLOOR

Effective Date: May 11, 2022

Supersedes: NEW

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

Product Name: ReflectiCUT Concrete Cutting & Refining Enhancer
Product Use: Concrete grinding and polishing agent, chemical hardener

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

Emergency Phone for Hazardous Materials– Accidents, Incident Spills, Leaks, Exposures, or Fire (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: Read all Hazard Statements and Precautionary Statements below: This product is alkaline. Keep out of reach of children. Avoid contact with eyes and skin. Avoid inhalation of aerosol or mist. May be harmful if swallowed. Wash exposed skin thoroughly with soap and water. Wear protective gloves, and safety glasses with side shields.

CODE OF HAZARD STATEMENTS:

Health Hazards:

- H303: May be harmful if swallowed.
- H313: May be harmful in contact with skin.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.

Environmental Hazards: NDA

Other Hazards: Components not classified as PBT or vPvB substance(s).

CODE OF PRECAUTIONARY STATEMENTS:

GENERAL

- P102: Keep out of reach of children.

PREVENTION

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

- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264: Wash thoroughly after handling
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves, clothing, and eyeglasses with side shields.
- P285: In case of inadequate ventilation wear respiratory protection.
- P321: Specific treatment (Reference First Aid Section 4 on SDS).
- P332: If skin irritation occurs: Get medical help.
- P337: If eye irritation persists: Get medical help.
- P362: Take off contaminated clothing and wash before reuse.
- P363: Wash contaminated clothing before reuse.

RESPONSE

- P301+ P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361 + P353: IF ON SKIN (or Hair): Take Wash with plenty of soap and water.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

STORAGE

- P412: Do not store in temperatures below 41°F (5°C) or above 95°F (35°C).

DISPOSAL

- P501: Dispose of contents/container in accordance with local, state, and federal regulations.

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

CARCINOGENICITY: None known at this time.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS #	EINECS No.	% by Weight	REACH
Amorphous Colloidal Silica/Trade Secret	7631-86-9	Proprietary	45-55	N/A
Water/Trade Secret	7732-18-5	231-791-5	45-55	N/A

*Undisclosed ingredients are withheld as trade secrets.

4. FIRST AID MEASURES

Eye: Immediately wash out with plenty of water for at least 15 minutes. Remove any contact lenses if easy to do so. If irritation persists or symptoms develop, obtain medical attention.

Skin: Rinse skin thoroughly with soap and water. If irritation develops, seek medical help.

Inhalation: Inhalation of aerosol/mist may cause respiratory irritation. Move affected person to fresh air and in a comfortable position for breathing. Treat symptomatically.

Ingestion: Rinse mouth with water to remove any residual chemicals. If the person vomits, clean their airway, and turn their head to the side to prevent choking. DO NOT induce vomiting. DO NOT give anything to eat or drink unless directed to do so by a physician. If the person is unconscious but breathing, place them stably on their left side in recovery position. Seek immediate medical attention.

Take a copy of the label and/or SDS with the victim to the health professional.

5. FIRE FIGHTING MEASURES

- Flash Point:** Not flammable / Non-Combustible
- Flammability Limits:** None anticipated.
- Extinguishing Media:** Dry chemical, carbon dioxide, and water spray
- Procedures:** Fire fighters should wear protective clothing appropriate for the surrounding fire(s). Material is alkaline and may cause the floor to be slippery.

6. ACCIDENTAL RELEASE MEASURES

Clean-up Procedures: Material is alkaline, wear proper PPE. Avoid skin contact by wearing appropriate chemical gloves. Do not get in eyes, wear safety glasses with side shields.

Spills and leaks: Contain spill immediately with inert, absorbent materials (sand, earth, cat litter, chemical spill cotton pads) by forming berms or dikes to contain and absorb spill to prevent material from spreading further. Do NOT dispose of or allow spillage to enter to run into waterways, storm drains or sewer systems. Use gloves and any tools to pick up absorbent and transfer to a suitable container for disposal or recovery. Wash area with water. 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 in ambient conditions of 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, it is recommended having a storage temperature of 68°F.

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 aerosol/mist particles if the airborne concentrations exceed the recommended exposure limits.

Hand/Skin Protection: Chemical resistant, impervious gloves (neoprene, PVC, Nitrile, or natural rubber). Long sleeve shirts, long pants, socks, rubber boots

Eye Protection: Safety goggles, glasses with side shields or face shields.

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.

SUBSTANCE	CAS #	LRTTEL (8 hr TWA)			IDLH
		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:	9.3 -10.7	Solubility:	Dispersible
VOC:	No Data Available	Density (g/ml):	1.38 – 1.41
Evaporation Rate:	No Data Available	Flash Point:	Non-Combustible
Freezing Point:	32°F (0°C)	Boiling Point:	212°F (100°C)

10. STABILITY AND REACTIVITY

<i>Chemical Stability:</i>	Considered stable under normal ambient temperatures/conditions.
<i>Hazardous Decomposition:</i>	None anticipated.
<i>Hazardous Reactions:</i>	None anticipated.
<i>Incompatible Materials to Avoid:</i>	None anticipated.

11. TOXICOLOGICAL INFORMATION

<i>Exposure Routes:</i>	Skin Contact, Eye Contact
<i>Information on Toxicological Effects:</i>	<i>Amorphous Silica (CAS# 7631-86-9)</i>
<i>Acute Toxicity:</i>	Oral: LD50 > 5000 mg/kg (rat) Dermal LD50 >2000 mg/kg (rabbit) Inhalation LC50 >5.01 mg/L (5010 mg/m ³) as a respirable dust (rat)
<i>Irritation/Corrosivity:</i>	Unlikely to cause skin irritation. Unlikely to cause eye irritation.
<i>Sensitization:</i>	It is not a skin sensitizer.
<i>Repeated Dose Toxicity:</i>	None anticipated.
<i>Mutagenicity:</i>	There is no evidence of mutagenic potential.
<i>Carcinogenicity:</i>	Oral rat – No evidence of a carcinogenic effect at 2000 mg/kg for 2 years. It is unlikely to present a carcinogenic hazard to man.
<i>Developmental Toxicity:</i>	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.
<i>Toxicity for Reproduction:</i>	Oral rat– no effects observed at 1000 mg/kg in a 2-generation reproductive/developmental study.
<i>Other Information:</i>	<u>NTP</u> : No <u>IARC</u> : No <u>ACGIH</u> : No <u>OSHA</u> : No

12. ECOLOGICAL INFORMATION

<i>Substances in Preparations / Mixtures:</i>	<i>Amorphous Silica (CAS# 7631-86-9)</i>
<i>Acute Toxicity:</i>	LC50 (96 hour): >500 mg/l (Fish) EC50 (48 hour): >10,000 mg/l (Aquatic invertebrates) EC50 (72 hour): >173 mg/l (Algae)
<i>Long-Term Toxicity:</i>	21 Day NOEC: >100 mg/l (Aquatic invertebrates)
<i>Persistence and Degradability:</i>	The product is a synthetic version of a naturally occurring mineral.
<i>Bio accumulative Potential:</i>	The substance has low potential for bioaccumulation.
<i>Mobility in Soil:</i>	The substance has low mobility in soil.
<i>Results of PBT and vPvB Assessment:</i>	Not classified as PBT or vPvB
<i>Other Adverse Effects:</i>	None known.

13. DISPOSAL

<i>Material(s):</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 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

<i>Ground Classification:</i>	Not regulated by US DOT
<i>Shipping Name:</i>	ReflectiCUT Concrete Cutting & Refining Enhancer
<i>UNFIC:</i>	None

ID Number: None
Packaging Group: None
Labels: No US DOT Labels
 Not Regulated by IATA or IMO.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. REGULATION

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

Right to Know Classification: Unknown

EPA TSCA Inventory: All components listed as Active.

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: Unknown

ABBREVIATIONS:

CAS#	Chemical Abstract Service Number	EINECS	European Inventory of Existing Commercial Chemical Sales
°C	Celsius temperature scale	°F	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 System	WHMIS	Workplace Hazardous Materials Info
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 regulated under Taiwan Toxic Chemical Substances Control Act of 1086		

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: October 17, 2024

Prepared By: Tiffany Potts