Polished Concrete Guard Safety Data Sheet

SDS Revision Date: 4/20/2023

1. Product and Company Identification

Product Name	Polished Concrete Guard
Product Codes	Polished Concrete Guard
Manufacturer	Concrete Floor Solutions, Inc.
Street Address	6801 Tilghman Street #113
City, State, Zip	Allentown, PA 18106
Information Phone	610-366-0208
Emergency Phone	Chemtrec 800-424-9300
Prepared By	Jason Kehnel
Date Revised	4/20/2023
Chemical Name or Class	Acrylic solution

2. Hazards Identification

GHS Classification: Skin corrosion/irritation category 3, serious eye irritation category 2B

GHS Label Elements and Precautionary Statements:
Label Elements: None
Hazard Statements:
Warning: Causes mild skin irritation.
Warning: Causes eye irritation
Precautionary statements:
P102 Keep out of reach of children.
P103 Read label before use
P264 Wash skin thoroughly after handling.
Response:
P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.
P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 IF eye irritation persists: Get medical advice/attention.

Disposal:
P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws.

HMIS Hazard Classification

Health: 2 Flammability: 1 Reactivity: 0 Personal Protective Equipment: G

Potential Health Effects

Eyes: Direct contact can cause irritation.
Skin: Direct contact can cause irritation.
Ingestion: May cause mouth, throat, esophagus, and stomach irritation, nausea, vomiting, and diarrhea.
Inhalation: Mist may irritate nose, throat, and lungs depending on concentration and duration of exposure
Health hazards (acute and chronic): Heated vapors may cause headache, nausea, or similar response.
Medical conditions generally aggravated by exposure: Respiratory conditions or other allergic response.

Carcinogenicity

OSHA: No NTP: No IARC: Yes

Additional carcinogenicity information:
No components of this product are listed as carcinogens

3. Composition/Information on Ingredients

Ingredient	Cas No.	OSHA PEL	ACGIH TLV	OSHA STEL	Weight %
Acrylic Polymer	Trade secret	NONE	NONE	NONE	10-30
Water	7732-18-5	NONE	NONE	NONE	60-100
Ammonia	7664-41-7	50 PPM	25 PPM	35 PPM	<0.1
2-Ethylhexyl Acrylate	103-11-7	5 PPM	NONE	NONE	<0.2
2,5,8,11 Tetramethyl 6 Dodecyn-5,8 Diol Ethoxylate	169117-72-0	NONE	NONE	NONE	<1.0

Alkylalkoxysilane/Fluoropolymer	N/A	NONE	20 PPM	NONE	1-5
2-Butoxyethanol Acetate (Component of Alkylalkoxysilane/Fluoropolymer	112-07-2	NONE	20 PPM	NONE	<0.3
Octyl Triethoxy Silane (Component of Alkylalkoxysilane/Fluoropolymer)	35435-21-3	NONE	NONE	NONE	0.1-1
Alpha-iso-tridecyl-omega-hydroxy polyglycol Ether (Component of Alkylalkoxysilane/Fluoropolymer)	9043-30-5	NONE	NONE	NONE	0.1-1
Ethanol (Component of Alkylalkoxysilane/Fluoropolymer)	64-17-5	1,000 PPM	1,000 PPM	NONE	0.1-1
(Ethylenedioxy) Dimethyl	3586-55-8	NONE	NONE	NONE	<0.1
5-chloro-2-methyl-4-isothiazolin-3-one	26172-55-0	*0.076 mg/m3	NONE	*0.23 mg/m3	<0.01
2-Methyl-4-isothiazolin-3-one	2682-20-4	*1.5 mg/m3	NONE	*4.5 mg/m3	<0.01

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372.***
Note: Ingredients listed without percentages, the percentages are considered a trade secret.

4. First Aid Measures

Eyes: Immediately flush eyes with water for 15 minutes and seek medical attention
Skin: Immediately flush skin with water for 15 minutes and seek medical attention if necessary
Ingestion: Dilute by giving water or milk and seek medical attention
Inhalation: Remove to fresh air and receive medical attention if ill effects persist

5. Fire Fighting Measures

Flammable limits in air (% by volume)	Upper: N/A Lower: N/A
Flash point	>212 F
Method used	Seta Flash
Extinguishing media	Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog
Special fire fighting procedures	Wear self contained breathing apparatus and full protective gear.
Unusual fire and explosion hazards	Material can splatter above 212 degrees F

6. Release Measures

Steps to be taken in case material is released or spilled - Wear appropriate safety equipment when handling material. Dyke material and take up absorbent to salvage containers.

7. Handling and Storage

Precautions to be taken in handling and storage: Wear suitable protective clothing to avoid contact with material. Wear neoprene or rubber gloves. Wear splash goggles with side shields. Store away from high heat, contact with flames and/or sparks. Keep material in sealed containers that are properly labeled. Do not allow material to freeze.
Other precautions: Use general safety precautions when using this material. Wash hands before using toilet facilities. Remove contaminated clothing promptly and wash them before use. Avoid skin contact. Avoid breathing vapors.

8. Exposure Controls/Personal Protection

Respiratory protection: Use a suitable (NIOSH approved organic vapor) respirator unless adequate ventilation is provided. Avoid the inhalation of any mists that may be generated in the application process.
Ventilation: Provide for adequate ventilation
Protective gloves: Impervious gloves – neoprene or rubber
Eye protection: Splash goggles or glasses with side shields
Other protective clothing or equipment: Clean body covering clothing as well as apron footwear or other equipment should be used as deemed necessary to avoid contact with the material
Work hygienic practices: Observe good general hygienic practices

See Section 3 for occupational exposure limit values

9. Physical and Chemical Properties

Appearance and Odor - Milky white liquid with negligible odor
Boiling Point or Range - N/A
Vapor Density (Air = 1) - N/A
Specific Gravity (H2O = 1) - 1.0
Evaporation Rate - Not available
Solubility in Water - Dilutable

Odor Threshold - N/A
pH - <8.0
Melting Point/Freezing Point - N/A
Vapor Pressure - N/A

Auto Ignition Temperature - N/A
Partition Coefficient: n-octanol/water - N/A
Decomposition Temperature- N/A

10. Stability and Reactivity

Stability - stable
Conditions to Avoid (Stability) - protect from freezing. Protect from elevated temperatures.
Incompatibility (Material to Avoid) - none known
Hazardous Decomposition or By-Products - incomplete combustion can produce carbon monoxide
Hazardous Polymerization - will not occur

11. Toxicological Information

No data for the product itself.
Component data:
COMPONENTS ACRYLIC POLYMER, Ammonia CAS# 7664-41-7, 2-Ethylhexyl acrylate CAS# 103-11-7 and WATER CAS# 7732-18-5:
Information on analogous products show minimal toxicity Concerns.
Acute Toxicity Oral: (rat) LD50 > 2,000 mg/kg. Acute toxicity Dermal: (rat) LD50 > 2,000 mg/kg.
Significant data with relevance to humans: 2-Ethylhexyl acrylate (EHA), used in the manufacture of this product, has been shown to cause cancer in laboratory animals, based on chronic skin painting studies in mice. Although there is no evidence that EHA causes cancer in humans, skin contact should be avoided, and the material should be handled with ventilation adequate to keep the atmospheric concentration of EHA below 5 ppm.
COMPONENTS 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate CAS# 169117-72-0: LD50 Ingestion >2000 mg/kg – rat; Dermal LD 50 >2000 mg/kg – rabbit; severe eye irritant; mild skin irritant; Not mutagenic in Ames test.
COMPONENT ALKYLALKOXYSILANE/FLUOROPOLYMER:
Information on toxicological effects: Toxicological testing has been conducted with similar product(s).

Acute toxicity Product details:

Route of exposure by	Result/Effect	Species/Test System	Source
inhalation (spray/dust)	LC50: 5.4 mg/l; 4h A dilution of 5% actives in water has been tested	Rat	Test report OECD 403

Acute toxicity estimate (ATE):

ATEmix (oral): > 2000 mg/kg
Skin corrosion/irritation Assessment: For this endpoint no toxicological test data is available for the whole product.
Serious eye damage / eye irritation Assessment:
Based on the available data a clinically relevant eye irritation hazard is not expected.
Product details:

Result/Effect	Species/Test system	Source
not irritating	no data available	Conclusion by analogy

Respiratory or skin sensitization Assessment: For this endpoint no toxicological test data is available for the whole product.
Germ cell mutagenicity Assessment: For this endpoint no toxicological test data is available for the whole product.
Carcinogenicity Assessment: For this endpoint no toxicological test data is available for the whole product.
Reproductive toxicity Assessment: For this endpoint no toxicological test data is available for the whole product.
Specific target organ toxicity (single exposure) Assessment: For this endpoint no toxicological test data is available for the whole product.
Specific target organ toxicity (repeated exposure) Assessment: For this endpoint no toxicological test data is available for the whole product.
Aspiration hazard Assessment: For this endpoint no toxicological test data is available for the whole product.
Further toxicological information Other information: Aerosol mist must not be inhaled, as lung damage can be expected. Product(s) of hydrolysis: According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degreases the skin, is narcotic and may cause liver damage.
COMPONENTS (Ethylenedioxy) Dimethyl CAS# 3586-55-8, 5-chloro-2-methyl-4-isothiazolin-3-one CAS# 26172-55-0, 2-Methyl-4-isothiazolin-3-one CAS# 2682-20-4: Acute Oral Effects: LD50 (rat) =2352 mg/kg; Acute Skin Effects LD50 (rabbit) >2000 mg/kg, irritant (rabbit), skin sensitizer; Acute Eye Effects – corrosive (rabbit); Acute Inhalation Effects: LD50 (rat, 4hr) – 150 mg/kg-520 mg/kg.

12.Ecological Information

No data for the product itself.
Component data:
Components ACRYLIC POLYMER, Ammonia CAS# 7664-41-7, 2-Ethylhexyl acrylate CAS# 103-11-7 and WATER CAS# 7732-18-5:
Environmental Fate: Not toxic to fish or plants. Does not inhibit bacteria in waste treatment facilities. Polymer is not biodegradable. Product is not RCRA hazardous.
Aquatic toxicity data:

Toxicity to Microorganisms IC50 >2,000 mg/l
Toxicity to Aquatic Invertebrates (Daphnia) EC50 >1,000 mg/l
Toxicity to fish (fathead minnow) >1,000 mg/l
Components 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate CAS# 169117-72-0: This product is anticipated to be harmful to aquatic organisms based on data from similar products.
COMPONENT ALKYLALKOXYSILANE/FLUOROPOLYMER :
Toxicity Assessment: No data known.
Persistence and degradability Assessment:
Product(s) of hydrolysis: ethanol and silanol- and/or silane-compounds . The hydrolysis product (Ethanol) is readily biologically degradable. Silicone content: Biologically not degradable.
Bioaccumulative potential Assessment: No data known.
Mobility in soil Assessment: No data known.
Other adverse effects none known
COMPONENTS 5-chloro-2-methyl-4-isothiazolin-3-one CAS# 26172-55-0, 2-Methyl-4-isothiazolin-3-one CAS# 2682-20-4: ECOTOXICITY: LD50 (bluegill sunfish, 96hr flow through) – 280 ug/L; LC50 (rainbow trout, 96hr flow through) – 190 ug/L; EC50 (daphnia magna, 48hr) – 160 ug/L. ENVIRONMENTAL FATE: octanol/water partition coefficient: $LogP_{ow}$ = 0.401; Biodegradation (aquatic metabolism):t ½ anaerobic – 4.8 hr. Biodegradation (aquatic metabolism: t ½ aerobic – 17.3hr. This component is a pesticide and may cause adverse environmental impact. Avoid contamination of streams and sewers

13. Waste Disposal

Waste Disposal Method: Dispose of material in a waste disposal site in accordance with local, state, and federal laws.

14. Transport Information

DOT: Not Regulated
IMO/IMDG: Not regulated

15. Regulatory Information

No data for the product itself.
Component data:
Components ACRYLIC POLYMER, Ammonia CAS# 7664-41-7, 2-Ethylhexyl acrylate CAS# 103-11-7 and WATER CAS# 7732-18-5:
Federal/National
40 CFR part 355: No listed chemicals are present at levels which would require reporting and emergency planning.
Superfund Amendments and Reauthorization Act of 1986 Title III section 311 and 312: Delayed hazard – No, Fire Hazard – No, Immediate Health Hazard – NO, Reactive Hazard – No, Sudden Release of Pressure Hazard – No.

Conforms to the EU. EINECS EINECS . The components of this product are all on the TSCA Inventory or exempt. Conforms to Australia. Industrial Chemical (Notification and Assessment) Act AICS. All components of this product are on the Canadian DSL list.. Conforms to Japan. Kashin-Hou Law List ENCS (JP). Conforms to Korea. Existing Chemicals Inventory (KECI) KECI (KR). Conforms to the Philippines. The Toxic Substances and Hazardous And Nuclear Waste Control Act .Conforms to PICCS (PH). Conforms to China. Inventory of Existing Chemical Substances IECSC (CN). Conforms to New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand NZIOC. United States – Federal Regulations: SARA Title III – Section 302 Extremely Hazardous Chemicals: The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations. SARA Title III - Section 311/312 Hazard Categories: No SARA Hazards. SARA Title III – Section 313 Toxic Chemicals: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – Reportable Quantity (RQ): The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity. OSHA Regulated Carcinogens (NTP, IARC, OSHA Listed): NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

State/Local

Massachusetts (Hazardous Substances Disclosure by Employers) Component Ammonia CAS# 7664-41-7 @ <0.01%

California Proposition 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warming under the statute.

COMPONENTS 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate CAS# 169117-72-0: WHMIS Hazard classification – Toxic material causing other toxic effects.. Product is on TSCA, EINECS, AICS, ENCS, ECL, SEPA, PICCS, DSL inventory lists.

COMPONENT ALKYLALKOXYSILANE/FLUOROPOLYMER These components may also contain other ingredients not listed that may be on the HAPS list or California Proposition 65 list for carcinogens/reproductive toxins, but are present at quantities below o.1% for Proposition 65 or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

U.S. Federal regulations

TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:
This material does not contain any SARA extremely hazardous substances.
SARA 311/312 Hazard Class:
This product does not present any SARA 311/312 hazards.
SARA 313 Chemicals:
This material does not contain any SARA 313 chemicals above de minimis levels.
HAPS (Hazardous Air Pollutants):
67-56-1 Methanol
112-07-2 2-Butoxyethanol acetate
U.S. State regulations
California Proposition 65 Carcinogens: This material does not contain any chemicals known to the state of California to cause cancer.
California Proposition 65 Reproductive Toxins:
This material does not contain any chemicals known to the state of California to cause reproductive effects.
Massachusetts Substance List: This material contains no listed components.
New Jersey Right-to-Know Hazardous Substance List: 112-07-2 2-Butoxyethanol acetate
Pennsylvania Right-to-Know Hazardous Substance List: 112-07-2 2-Butoxyethanol acetate
Canadian regulations
This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS Hazard Classes: None.
DSL Status: This material or one or more of its components is not listed on the Canadian Domestic Substances List.
Non-DSL Chemicals: CAS No. Chemical Upper limit wt. % Confidential Vendor Trade Secret (Not Disclosed, Proprietary, Unknown) 11.0%
Canadian Ingredient Disclosure List: This material contains no listed components.
Other international regulations
EU Risk Phrases: R
EU Safety Phrases: S-
Details of international registration status
Listed on or in accordance with the following inventories:
EINECS - Europe
ECL - Korea
AICS - Australia
IECSC - China
TSCA – USA
COMPONENTS (Ethylenedioxy) Dimethyl CAS# 3586-55-8,
5-chloro-2-methyl-4-isothiazolin-3-one CAS# 26172-55-0, 2-Methyl-4-isothiazolin-3-one CAS# 2682-20-4: This component does not contain any chemical subject to the reporting requirements

of SARA Section 313, SARA Section 302, SARA Section 304 and CERCLA Section 103. This component does not contain any substance that are currently on the list of known carcinogens and reproductive toxins at levels which would require a warning under California Proposition 65. STATE RIGHT TO KNOW: This component is regulated by the federal insecticide, fungicide, and rodenticide act (FIRRA) and is exempt from state right to know labeling requirements when labeled with an approved EPA label. EPA Registration Number 5383-104. Components are on the TSCA, EINECS inventories.

16.Other Information

DISCLAIMER: THE INFORMATION HEREIN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE, HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT.

N/A = Not Available
See Section 1 for date of preparation

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