



Product Name: Dura-Kote PFC-280 (Part A)
05/05/2015

SAFETY DATA SHEET

SECTION 1 Product and Company Identification

Product

Product Name: Dura-Kote PFC-280 (Part A)
Product Description: Finishing aid
Intended Use: Sealer for cementitious floors

Company

Manufacturer: SureCrete Design Products, Inc.
15246 Citrus Country Drive
Dade City, FL 33523
USA
Contact: 352-567-7973 (telephone general)
813-469-1408 (telephone 24 hour emergency)
813-469-1419
info@surecretedesign.com (e-mail)
352-521-0973 (facsimile)

SECTION 2 Hazards Identification

Health Hazards: Can cause severe lung damage and may be fatal if swallowed. May cause CNS depression

Physical Hazards: Combustible. Vapors are heavier than air. Vapors may travel along the ground and reach remote source of ignition causing flash back fire danger.

SECTION 3 Composition / Information on Ingredients

This material is regulated as a mixture

Ingredient	CAS #	EC#	% (by weight)
Hazardous			
Xylene	1330-20-7	215-535-7	<15%
Titanium Dioxide Pigment	13463-67-7	NE	<30%
Non Hazardous			
Secondary diamines	NA	NA	<60%

SECTION 4 First Aid Measures

Eye Contact: Rinse with running water for 15 minutes. Hold eyelids apart while irrigating. Rest eyes for 30 minutes. If irritation continues, transport to nearest medical facility for treatment.

Skin Contact: Wash affected area thoroughly with soap and water. Wash clothing before reuse.

Inhalation: Move to fresh air. Administer artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical attention

Ingestion: Get medical attention immediately. Do not induce vomiting.



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SECTION 5 Fire Fighting Measures

Extinguishing Media

Appropriate: Foam, CO₂, Dry chemical, water fog

Inappropriate: Solid streams of water

Special Fire Fighting Procedures: Water may be ineffective in fighting fire. If water is used to cool containers, fog nozzles are preferred. Full protective equipment, including self-contained breathing apparatus required.

Unusual Fire and Explosion Hazard: Vapors are heavier than air and may travel along the ground to a remote source of ignition. Overexposure to decomposition products may cause health hazard that is not readily apparent. Obtain medical attention. Never use cutting torches or welding equipment on "empty" containers.

Flammability Properties

Flash Point (Method): 27°C / 81°F

Flammable Limits (Approximate volume % in air): LEL: 1.0 UEL: 6.6

Auto ignition Temperature: >462°C / 864°F

SECTION 6 Accidental Release Measures

Personal precautions: Wear protective clothing. Avoid contact with skin. Avoid breathing vapors. Remove all potential sources of ignition. Evacuate personnel to safe areas. Vapors may accumulate to form explosive concentrations. Vapors may collect in low areas.

Environmental precautions: Prevent entry into waterways or confined areas.

Methods for clean-up: Absorb spill onto sand, vermiculite, or any other inert, non-combustible material. Scoop into containers for later appropriate disposal.

SECTION 7 Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Avoid handling of vapor or mist. Do not permit eating, drinking, smoking near material. Remove all potential sources of ignition.

Storage: Keep containers tightly closed, in dry, cool, well ventilated place. Do not store together with strong oxidizing agents.

SECTION 8 Exposure Control / Personal Protection

Exposure limit values: TLV –ACGIH 100 ppm (TWA), 150 ppm (STEL)
OSHA-PEL 100 ppm (TWA)
MAK-GER 440 mg/m³ (TWA)
REL-NIOSH 100 ppm (TWA), 150 ppm (STEL)

Occupational exposure controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Respiratory protection: Wear suitable NIOSH approved respirator when ventilation is inadequate

Hand protection: Chemically compatible gloves

Eye protection: Safety glasses with side shields



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Skin protection: Minimize skin contact with appropriate long-sleeved clothing

Hygiene measures: Observe good industrial hygienic practices. Frequently launder or discard proactive clothing, equipment.

Environmental exposure controls: Emissions from work process equipment should be checked against requirements of appropriate environmental protection legislation. In some cases alteration to work process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9 Physical and Chemical Properties

General

Physical state: liquid

Color: clear

Odor: characteristic aromatic

Safety Data

pH: not available

Boiling point: 168°C / 335°F

Flash point: 27°C / 81°F

Flammable limits (approximate volume % in air): LEL: 1.0 UEL: 6.6

Auto ignition temperature: 462°C / 864°F

Vapor pressure (mm Hg.): 9mm/Hg @ 25°C / 77°F

Water solubility: negligible

Vapor density (air = 1): 4.3

Specific gravity (water = 1): .88

VOC: 196 g/L (A and B combined)

SECTION 10 Stability and Reactivity

Stability: Stable under normal conditions

Conditions to avoid: heat, flame, sparks, and other sources of ignition; prevent vapor accumulation

Materials to avoid: Strong oxidizing agents. CAUTION: N-Nitrosamines many of which are known to be potent carcinogens may be formed when the product comes in contact with nitrous acid, nitrites, or atmospheres with high nitrous oxide concentration. Nitrous acids and other nitrosating agents. Organic and mineral acids. Sodium hypochlorite. Reaction with peroxides may result in violent decomposition of peroxide that may possibly cause explosion.

Hazardous decomposition products: Nitric acid. Ammonia. Nitrogen Oxides. Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon Dioxide. Nitrosamine.

SECTION 11 Toxicological Information

Acute Toxicity

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity : LC50 > 5000 ppm 3670 ppm (m) rat 8 hours	No deaths



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Irritation: data available	Elevated temperatures or mechanical action may form vapors, mist, or fumes that may be irritating to the eyes, nose, throat, or lungs based on available literature
<i>Ingestion</i>	
Toxicity: LD50 > 4700 mg/kg	No deaths
<i>Skin</i>	
Toxicity: LD50 > 4320 mg/kg 4 ml/kg Rat	No deaths
Irritation: data available	Irritating to the skin based on available literature
<i>Eye</i>	
Irritation: data available	Moderately irritating to the eyes based on available literature

Chronic / Other Effects

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. Small amounts of liquid aspirated into the lungs during ingestion or vomiting may cause chemical pneumonitis or pulmonary edema. Very high exposures (confined space or abuse) to light hydrocarbons may result in abnormal heart rhythm. Concurrent high stress levels and / or co-exposure to high levels of hydrocarbons (above occupational exposure limits) and exposure to heart stimulating substances like epinephrine, nasal decongestants, asthma drugs, or cardiovascular drugs may initiate arrhythmias. Studies have revealed carcinogenicity in laboratory animals. The relevancy of these findings to humans is uncertain.

Titanium Dioxide Listed in Section 3 does not show an increase in lung cancer in the work force as a result of exposure to TiO₂ dust according to epidemiology studies. IRAC recently evaluated = Group 2b (possibly carcinogenic to humans). Not listed as a carcinogen by NTP, OSHA, ACGIH. Further, TiO₂ is always in solution as formulated.

SECTION 12 Ecological Information

Ecotoxicity: Material expected to be toxic to aquatic organisms

Mobility: Material highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids

Persistence and degradability

Biodegradation: expected to be readily biodegradable

Atmospheric oxidation: expected to degrade rapidly in atmosphere

Bioaccumulation potential: very low potential to bioaccumulate

Other: material is VOC



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SECTION 13 Disposal Considerations

Methods of disposal: waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Hazardous waste: European waste code 14 06 03. The material is considered as hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that directive unless Article 1(5) of the Directive applies.

Section 14 Transport Information

<i>Regulatory Information</i>	<i>UN number</i>	<i>Proper shipping name</i>	<i>Class</i>	<i>Packing group</i>	<i>Additional information</i>	<i>Marine pollutant</i>
DOT	1307	Xylene, solution	3	III		NA
ADR/RID class	1307	Xylene, solution	3	III		NA
IMDG class	1307	Xylene, solution	3	III		No
IATA class	1307	Xylene, solution	3	III		NA

SECTION 15 Regulatory Information

US FEDERAL

OSHA Hazards: Combustible liquid

TSCA Inventory Listing: listed or exempt

SARA 302 Status: no chemicals to report

SARA 311/312 Classification: Fire hazard. Immediate (Acute) Health Hazard. Delayed (Chronic) Health Hazard

SARA 313:

Chemical	CAS #	% by weight
Xylene	1330-20-7	<5%
1,2,4 Trimethylbenzene	95-63-6	<40%
Cumene	98-82-8	<2%

CERCLA Hazardous Substance: none

WHIMS: Class B, Division 3: Combustible liquid

EU

Material is dangerous as defined by the EU Dangerous Substances / Preparations Directives

Risk phrases: R10: flammable
R38: irritating to skin
R20/21: harmful by inhalation and contact with skin

Safety advice: S02: keep out of reach of children



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S25: Avoid contact with skin

Dangerous as defined by EU CLP 2008:

Physical/chemical properties:

Flammable liquids: flam. liquid 3:

H226: flammable liquid and vapor

Health hazards:

Skin corrosion / irritation: skin irritation. 2:

H315: causes skin irritation

Acute toxicity – inhalation: acute toxicity. Cat. 4:H332: harmful if inhaled

Acute toxicity – dermal: acute toxicity. Cat. 4: H312: harmful in contact with skin

Precautionary statements

P210: keep away from heat, sparks, open flame, hot surfaces / no smoking

P243: take precautionary measures against static discharge.

P261: avoid breathing dust, fumes, gas, mist, vapor, spray

P280: wear protective gloves, clothing, eye, and face protection

P303+P361+P353: if on skin / hair: remove / take off immediately all contaminated clothing; rinse with water

INTERNATIONAL REGULATIONS

AICS: listed

MITI: listed

DSL / NDSL: listed

EINECS: listed

PICCS: listed

Korean, China Inventory List: listed

STATE REGULATIONS

California Prop.65: This product contains trace elements known to the State of California to cause cancer, birth defects, or reproductive harm. California law requires the manufacturer to give the above warning in the absence of definitive testing to prove the defined risks do not exist.

SECTION 16 Other Information

Hazard Ratings

	<i>health</i>	<i>flammability</i>	<i>reactivity</i>
HMIS	2	2	0
NFPA	1	2	0

Full text of R-phrases referred to in section 2:

R10: flammable

R11: highly flammable

R38: irritating to skin

R20: harmful by inhalation



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R20/21: harmful by inhalation and in contact with skin

Full text of hazard statements referred to in section 2:

H225: highly flammable liquid and vapor

H226: flammable liquid and vapor

H332: harmful if inhaled

H312: harmful in contact with skin

H315: causes skin irritation

Recommended restriction: for use by trained professionals, having read the complete MSDS

Key Legend:

ACGIH – American Conference of Governmental Industrial Hygienists

HMIS - National Paint and Coating Hazardous Materials Identification System

NFPA – National Fire Protection Agency

OSHA – Occupational Safety and Health Administration

WHIMS – Workplace Hazardous Materials Information System

AICS – Australian Inventory of Chemical Substances

MITI – Japanese Ministry of Trade and Industry Inventory Listing

DSL – Canadian Domestic Substance List

NDSL - Canadian Non-domestic Substance List

EINECS – European Inventory of Existing Commercial Chemical Substances Listing

PICCS – Philippines Inventory List

NTP – National Toxicology Program

IARC – International Agency for Research on Cancer

R – Risk Phrases

S – Safety Phrases

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According to Regulation (EC) No. 1907/2006 (REACH), Annex II, Commission Directive 2001/59/EC and REGULATION (EC) No. 1272/2008 (CLP)

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