

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name: CPS TurboKrete Kit # 5494323 Pt A Revision Date: 12/11/2007
Identification Number: 237532
Product Use/Class: Concrete Repair Epoxy/ Part A
Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation
11 Hawthorn Parkway 11 Hawthorn Parkway
Vernon Hills, IL 60061 Vernon Hills, IL 60061
USA USA
Preparer: Regulatory Department

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Bis-A Liquid Epoxy Resin	25085-99-8	75.0	N.E.	N.E.	N.E.	N.E.
Furfuryl Alcohol	98-00-0	20.0	10 PPM SKIN	15 PPM SKIN	10 PPM SKIN	N.E.
Hexanediol Diacrylate	13048-33-4	10.0				
Titanium Dioxide	13463-67-7	5.0	10 mg/m3	N.E.	10 mg/m3	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Causes eye irritation. Causes skin irritation. May cause allergic skin reaction. Combustible liquid and vapor.

Effects Of Overexposure - Eye Contact: Substance causes severe eye irritation. Injury may be permanent.

Effects Of Overexposure - Skin Contact: May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs.

Effects Of Overexposure - Ingestion: Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B- "Possibly carcinogenic to humans" by IARC. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Section 4 - First Aid Measures

Material Safety Data Sheet

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Section 1 - Chemical Product / Company Information

Product Name: CPS TurboKrete Kit # 5494323 Pt C Revision Date: 12/11/2007
Identification Number: 237452
Product Use/Class: Aggregate/TurboKrete
Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation
11 Hawthorn Parkway 11 Hawthorn Parkway
Vernon Hills, IL 60061 Vernon Hills, IL 60061
USA USA
Preparer: Regulatory Department

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight %	Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Crystalline silica	14808-60-7	90.0		0.1 mg/m3	N.E.	10 mg/m3 Respirable	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Harmful if inhaled. May cause delayed lung damage.

Effects Of Overexposure - Eye Contact: Irritating, and may injure eye tissue if not removed promptly.

Effects Of Overexposure - Skin Contact: Low hazard for usual industrial handling or commercial handling by trained personnel.

Effects Of Overexposure - Inhalation: Harmful if inhaled.

Effects Of Overexposure - Ingestion: Expected to be a low ingestion hazard.

Effects Of Overexposure - Chronic Hazards: Contains crystalline silica as silicon dioxide. Excessive inhalation of respirable crystalline silica dust may cause lung disease, silicosis or lung cancer. Significant exposure is not anticipated during brush or trowel application or drying. Risk of overexposure depends on the duration and level of exposure to dust from repeated sanding of surfaces, mechanical abrasion or spray mist and actual concentration of crystalline silica in the formula. Crystalline silica is listed as Group 1 "carcinogenic to humans" by the International Agency for Research on Cancer (IARC,) and Group 2, "reasonably anticipated to be a carcinogen" by the National Toxicology Program (NTP)

Primary Route(s) Of Entry: Inhalation

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical

attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

First Aid - Ingestion: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

Section 5 - Fire Fighting Measures

Flash Point: NA F
(Setaflash)

LOWER EXPLOSIVE LIMIT: N.A. %
UPPER EXPLOSIVE LIMIT : N.A. %

Extinguishing Media:

Unusual Fire And Explosion Hazards: No unusual Hazards

Special Firefighting Procedures: If water is used, fog nozzles are preferred.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Isolate and dispose of in accordance with state and federal regulations.

Section 7 - Handling And Storage

Handling: Use with adequate ventilation.

Storage: Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Use gloves to prevent prolonged skin contact.

Eye Protection: Wear safety glasses with side shields (or goggles) and a face shield.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	0 - N.D. F	Vapor Density:	
Odor:	None	Odor Threshold:	ND
Appearance:	Solid	Evaporation Rate:	N.A.
Solubility in H ₂ O:	Slight	Specific Gravity:	2.645
Freeze Point:	ND	PH:	NE
Vapor Pressure:	ND		
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: No Information.

Incompatibility: Not applicable for this product.

Hazardous Decomposition: May produce hazardous fumes when heated to decomposition as in welding. Fumes may contain: carbon monoxide, carbon dioxide, chlorine, hydrogen chloride and possible cyanide and MDI.

Hazardous Polymerization: Will not occur under normal conditions

Stability: Stable under normal conditions

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name

Crystalline silica

LD50

N.D.

LC50

N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	N.A.	Packing Group:	---
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	Not Regulated	Resp. Guide Page:	---

DOT UN/NA Number: ----

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

CHRONIC HEALTH HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS Number</u>
Glass Beads	65997-17-3

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS Number</u>
Glass Beads	65997-17-3

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

This product contains no known chemicals known by the State of California to cause birth defects or other reproductive harm

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2*

Flammability: 0

Reactivity: 0

Personal Protection: X

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

attention.

First Aid - Skin Contact: Wash contaminated clothing and decontaminate footwear before reuse. Remove contaminated clothing. Wash skin with soap and water. Get medical attention.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

First Aid - Ingestion: If swallowed, do not induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5 - Fire Fighting Measures

Flash Point: 217 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: N.A. %
UPPER EXPLOSIVE LIMIT : N.A. %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No unusual Hazards

Special Firefighting Procedures: Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Use only in a well-ventilated area.

Storage: Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use gloves to prevent prolonged skin contact.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Section 9 - Physical And Chemical Properties

Boiling Range:	0 - N.D. F	Vapor Density:	Heavier than Air
Odor:	None	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in H ₂ O:	None	Specific Gravity:	1.011
Freeze Point:	ND	PH:	NE
Vapor Pressure:	ND		
Physical State:	Paste		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F.

Incompatibility: No Information.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions

Stability: Stable under normal conditions

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name

Triethylenetetramine

Diethylenetriamine

Phenol,4,4'-(1-Methylethylidene)Bisphenol A

LD50

2-5 G/KG RAT ORAL

LC50

0.5-1 G.KG RAB SKN

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint Related Material	Packing Group:	III
DOT Technical Name:	Corrosive N.O.S.	Hazard Subclass:	---
DOT Hazard Class:	8	Resp. Guide Page:	153
DOT UN/NA Number:	UN2735		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, REACTIVE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS Number</u>
Phenol,4,4'-(1-Methylethylidene)Bisphenol A	80-05-7

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

None

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

None

California Proposition 65:

This product contains no known chemicals known by the State of California to cause cancer

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -**CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B3 D2A D2B

Section 16 - Other Information

HMIS Ratings:

Health: 3

Flammability: 1

Reactivity: 1

Personal Protection: X

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

First Aid - Ingestion: If swallowed, do not induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5 - Fire Fighting Measures

Flash Point: 185 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 1.8 %
UPPER EXPLOSIVE LIMIT : 16.3 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Combustible liquid and vapor.

Special Firefighting Procedures: Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Wash thoroughly after handling. Avoid breathing vapor or mist. Avoid prolonged or repeated contact with skin. Use only in a well-ventilated area. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Storage: Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class II combustible liquids. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is

any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use gloves to prevent prolonged skin contact.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Section 9 - Physical And Chemical Properties

Boiling Range:	0 - 500 F	Vapor Density:	Heavier than Air
Odor:	None	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in H ₂ O:	None	Specific Gravity:	1.153
Freeze Point:	ND	PH:	NE
Vapor Pressure:	ND		
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F.

Incompatibility: Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions

Stability: Stable under normal conditions

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name

Bis-A Liquid Epoxy Resin
Furfuryl Alcohol
Hexanediol Diacrylate
Titanium Dioxide

LD50

>5000 MG/KG RAT
177 MG/KG RAT ORAL
>5 G/KG (ORAL, RAT)
>7500 mg/kg (ORAL, RAT)

LC50

N.D.
233 PPM RAT 4H/INH
3.67 G/KG RAB.SKIN
N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint Related Material	Packing Group:	---
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	Not Regulated	Resp. Guide Page:	---
DOT UN/NA Number:	----		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS Number</u>
Hexanediol Diacrylate	13048-33-4

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

None

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

None

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

This product contains no known chemicals known by the Sate of California to cause birth defects or other reproductive harm

International Regulations: As follows -**CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B3 D2A D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2*

Flammability: 2

Reactivity: 0

Personal Protection: X

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.