Safety Data Sheet
Sakrete High Strength Anchoring Epoxy

Created 03/10/2015
Revision 01/31/2018
Version: 3.0

1. Product and Company Identification

Product Name: Sakrete **High Strength Epoxy Resin (Part A)** **Product Use: Anchoring**

Supplier Identification:
Sakrete of North America
625 Griffith Rd, Ste 100
Charlotte, NC 28217
Contact Phone: 866-725-7383

Emergency Phone:
For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
1-800-424-9300 [USA] / +1 703-527-3887 [CAN]

2. Hazards Identification (Part A)

GHS Classification

Health	Physical	Environmental
Skin Irritant Cat 2 Eye Irritant Cat 2B Carcinogen Cat 2	Not Classified	Not Classified

GHS Label:

Warning:

Eye Irritant
Skin Irritant

Emergency Overview
May cause skin sensitization
Causes skin and eye irritation
May cause cancer
Wash skin thoroughly after handling
Avoid breathing fume/gas/mist/vapors/spray
Wear protective gloves/ protective clothing/ eye protection/ face protection
Use outdoors or in a well-ventilated area

Primary Route of Exposure
Eyes, skin and oral

Carcinogenicity
This product or one of its ingredients present at 0.1% or more IS listed as a carcinogen or suspect carcinogen by NTP, IARC, Prop 65 or OSHA.

This product contains crystalline silica (quarts sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the

chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of this product will create a possible silica dust hazard).

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of this product will create a possible dust hazard).

3. Composition/ Information on Ingredients (Part A)

CAS Number	Content%	Chemical Name
25068-38-6	40 - 70	Bisphenol A Epoxy Resin
14808-60-7	20 - 40	Crystalline Silica (quartz)
68460-21-9	7 – 15	Trimethylol Ethane Triglycidyl Ether
13463-67-7	1 - 5	Titanium Dioxide

4. First Aid Measures (Part A)

Inhalation: Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if symptoms persist.
Skin: Remove contaminated clothing. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.
Ingestion: Give plenty of water. DO NOT induce vomiting. Call a physician immediately.
Other: Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

5. Fire Fighting Measures (Part A)

Flash Point: N/D
Flammable Limits: N/D

Extinguisher Media
Carbon Dioxide, Dry Chemical, Water Fog

Unusual Fire and Explosion Hazard
None known. Thermal Decomposition can be formed.

Special Fire Fighting Procedures
Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.

6. Accidental Release Measures (Part A)

Personal Precautions:
Avoid all personal contact. In enclosed areas, cleanup personnel should wear self-contained breathing apparatus.

Environmental Precautions
Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting.

7. Handling and Storage (Part A)

Handling: Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.
Storage: Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature ranges in between 4 °C and 35 °C (40°F and 95° F).

8. Exposure Control and Personal Protection (Part A)

Exposure Guidelines

Component	CAS#	OSHA PEL	TLV
Titanium Dioxide	13463-67-7	15 mg/m^3	10 mg/m^3
Quartz Silica Sand (Crystalline Silica)	14808-60-7	0.1 mg/m3	0.025 mg/m^3

Engineering Measures: Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

Personal Protective Equipment

Respiratory Protection
None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.

Eye/Face Protection
Wear splash proof chemical goggles/ full face shield if there is a potential for splashing.

Skin / Body Protection
Wear Suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure.

Other Protective Clothing or Equipment
Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

9. Physical and Chemical Properties (Part A)

Physical State:	**Liquid**
Appearance:	**White Liquid**
Evaporation Rate:	**N/D**
Odor:	**Slight Odor**

Odor Threshold:	**N/D**
Melting/Freezing Point:	**N/D**
Boiling Point and Range	**N/D**
Solubility in Water:	**Insoluble**
Specific Gravity(g/cc):	**N/D**
Vapor Density(air = 1):	**N/D**
Vapor Pressure:	**N/D**
VOC Content:	**See section 9 of part B for VOC content**
pH:	**N/D**
Boiling Point:	**N/D**

10. Stability and Reactivity (Part A)

Stability:	**Stable**
Thermal Decomposition:	**Can yield CO, CO_2 and organic Nitrogen compounds.**
Incompatibility:	**Strong acids, peroxides, and other oxidizing agents**
Conditions to avoid:	**Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.**

11. Toxicological Information (Part A)

Not Determined

Acute Dermal Toxicity:
Not Determined

Acute Inhalation Toxicity:
Not Determined

Skin Irritation:
Irritating to skin
The product has not been tested. The statement has been derived from the properties of the individual components.

Eye Irritation:
Irritating to eyes.
The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory Irritation:
Inhalation of vapors or mists may cause irritation to the respiratory system.

Sensitization:
May cause allergic skin reaction and irritation to the respiratory system.
The product has not been tested. The statement has been derived from the properties of the individual components.

STOT – single exposure
Not Determined

STOT – Repeated Exposure
Not Determined

Carcinogenicity Classification:
Titanium Dioxide:
IARC Group 2B: Possibly carcinogenic to humans.
This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
Quartz Silica Sand (Crystalline Silica):
IARC Group1: Known human carcinogen based on human evidence.
NTP (National Toxicology Program) has classified Crystalline Silica as a known human carcinogen.

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12. Ecological Information (Part A)

Fish:
Bisphenol A:
Fathead minnow/LC50 (96hrs): >3.1mg/l

Aquatic Invertebrates:
Bisphenol A:
Water Flea Daphnis/EC 50 (48hrs): > 1.4mg/l

Algae:
No Data Available

Microorganisms:
Bisphenol A:
Bacteria, (Growth inhibition)/IC50 (18hrs): > 42.6mg/l

Mobility:
Considering the use of the substance, it is unlikely that significant environmental exposure in the air or water will arise.

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13. Disposal Considerations (Part A)

If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

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14. Transportation Information (Part A)

This product is not regulated as a hazardous material for transportation.

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15. Regulatory Information (Part A)

HMIS Rating	
Health	2
Flammability	1
Physical Hazard	0
PPE	B

NFPA Rating

Hazard Rating: 0 = minimal, 1 = Slight, 2 = moderate, 3 = severe, 4 = extreme

Federal Regulations

CERCLA RQ

SARA Title 311/312 — **Not Determined**

CA Prop 65 — **This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.**

TSCA — **Listed or Exempt**

State Regulations:

State RTK
NJ, MA, PA

CAS#	Chemical Name
25068-38-6	Bisphenol A Epoxy Resin
13463-67-7	Titanium Dioxide

16. Other Information (Part A)

Hazard Communication: This SDS has been prepared in accordance with the federal OSHA Hazard Communication Standard

To the best of our knowledge, the information contained herein is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. 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.

Additional information is available upon request.

1. Product and Company Identification

Product Name: Sakrete **High Strength Epoxy Hardener (Part B)**

Product Use: Anchoring

Supplier Identification:
Sakrete of North America
625 Griffith Rd., Ste 100
Charlotte, NC 28217
Contact Phone: 866-725-7383

Emergency Phone:
Chemtrec: 800-424-9300

2. Hazards Identification (Part B)

GHS Classification

Health	Physical	Environmental
Skin Corrosion Cat 1B **Serious Eye Damage Cat 1** **Carcinogen Cat 1** **Reproductive Toxicity Cat 2**	**Not Classified**	**Toxic to Aquatic Life Cat-2**

GHS Label:

Danger:

Corrosive to skin and eyes

Carcinogen
Reproductive Toxicity

<u>Emergency Overview</u>
Causes skin burns
Causes severe eye damage
May cause cancer
Suspected of damaging fertility
Wash skin thoroughly after handling
Avoid breathing fume/gas/mist/vapors/spray
Wear protective gloves/ protective clothing/ eye protection/ face protection
Use outdoors or in a well-ventilated area
Avoid contact during pregnancy/while nursing

Primary Route of Exposure
Eyes, skin and oral

Carcinogenicity
This product or one of its ingredients present at 0.1% or more IS listed as a carcinogen or suspect carcinogen by NTP, IARC, Prop 65 or OSHA.

This product contains crystalline silica (quarts sand). IARC has classified crystalline silica as a Group 1

carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of this product will create a possible silica dust hazard)

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3. Composition/ Information on Ingredients (Part B)

CAS Number	Content %	Chemical Name
140-31-8	7 – 15	n-aminoethylpiperazine
84852-15-3	7 – 15	Nonyl phenol
68953-36-6	7 – 15	Modified Polyamide Resin
100-51-6	5 – 10	Benzyl Alcohol
14808-60-7	40 – 60	Quartz Silica Sand (Crystalline Silica)
Proprietary	20 – 30	Non Hazardous

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4. First Aid Measures (Part B)

Inhalation: Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if symptoms persist.
Skin: Remove contaminated clothing. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.
Ingestion: Give plenty of water. DO NOT induce vomiting. Call a physician immediately.
Other: Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

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5. Fire Fighting Measures (Part B)

Flash Point: N/D
Flammable Limits: N/D

Extinguisher Media
Carbon Dioxide, Dry Chemical, Water Fog

Unusual Fire and Explosion Hazard
None known. Thermal Decomposition can be formed.

Special Fire Fighting Procedures
Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.

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6. Accidental Release Measures (Part B)

Personal Precautions:
Avoid all personal contact. In enclosed areas, cleanup personnel should wear self-contained breathing apparatus.

Environmental Precautions

Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting.

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7. Handling and Storage (Part B)

Handling: Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.
Storage: Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature ranges in between 4 °C and 35 °C (40°F and 95° F).

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8. Exposure Control and Personal Protection (Part B)

Exposure Guidelines

Component	CAS#	OSHA PEL	TLV
Quartz Silica Sand (Crystalline Silica)	14808-60-7	0.1 mg/m3	0.025 mg/m^3
Benzyl Alcohol	100-51-6	50ppm (Ceiling)	100 mg/m^3

Engineering Measures: Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

Personal Protective Equipment

Respiratory Protection
None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.

Eye/Face Protection
Wear splash proof chemical goggles/ full face shield if there is a potential for splashing.

Skin / Body Protection
Wear Suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure.

Other Protective Clothing or Equipment
Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

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9. Physical and Chemical Properties (Part B)

Appearance:	Black Paste
Evaporation Rate:	N/D
Odor:	Slight Odor
Solubility in Water:	Insoluble
Specific Gravity(g/cc):	N/D
Vapor Density:	N/D

Vapor Pressure:	**N/D**
VOC Content:	**2 g/L (tested per EPA CFR 40, Part 63, Subpart PPPP, Appendix A)**
pH:	**N/D**
Boiling Point:	**N/D**

10. Stability and Reactivity (Part B)

Stability:	**Stable**
Thermal Decomposition:	**Can yield CO, CO_2 and organic Nitrogen compounds.**
Incompatibility:	**Strong acids, peroxides, and other oxidizing agents**
Conditions to avoid:	**Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.**

11. Toxicological Information (Part B)

Acute Oral Toxicity:
Not Determined

Acute Dermal Toxicity:
Not Determined

Acute Inhalation Toxicity:
Not Determined

Skin Irritation:
Corrosive to skin
The product has not been tested. The statement has been derived from the properties of the individual components.

Eye Irritation:
Severe damage to eyes.
The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory Irritation:
Inhalation of vapors or mists may cause lung irritation to the respiratory system.

Sensitization:
May cause allergic skin reaction and irritation to the respiratory system.
The product has not been tested. The statement has been derived from the properties of the individual components.

STOT – single exposure
Not Determined

STOT – Repeated Exposure

Not Determined

Carcinogenicity Classification:
Quartz Silica Sand (Crystalline Silica):
IARC Group1: Known human carcinogen based on human evidence.
NTP (National Toxicology Program) has classified Crystalline Silica as a known human carcinogen.

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12. Ecological Information (Part B)

Acute Toxicity for:
Fish:
Polyamide Resin:
Zebrafish /LC50 (96hrs): >5.0mg/l

Aquatic Invertebrates:
Polyamide Resin:
Water Flea Daphnis/EC 50 (48hrs): > 7.07mg/l

Algae:
No Data Available

Microorganisms:
No Data Available

Mobility:
Considering the use of the substance, it is unlikely that significant environmental exposure is the air or water will arise.

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13. Disposal Considerations (Part B)

If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

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14. Transportation Information (Part B)

DOT (US)
CARTRIDGE: Limited Quantity, LTD QTY
***BULK: AMINES, LIQUID, CORROSIVE, N.O.S. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 2735, PG III**

***Bulk packaging in quantities of 1.3 gallons (net) or less are packaged in accordance with the limited quantity exception.**

IATA/ICAO
CARTRIDGE/BULK: AMINES, LIQUID, CORROSIVE, N.O.S. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 2735, PG III

I MDG
CARTRIDGE/BULK: AMINES, LIQUID, CORROSIVE, N.O.S. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 2735, PG III

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15. Regulatory Information (Part B)

HMIS Rating	
Health	*3
Flammability	1
Physical Hazard	0
PPE	B

NFPA Rating

Hazard Rating: 0 = minimal, 1 = Slight, 2 = moderate, 3 = severe, 4 = extreme

Federal Regulations

SARA Title 311/312 — Chronic Health Hazard

CA Prop 65 — This product does contain a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

TSCA — Listed or Exempt

State Regulations:

State RTK
NJ, MA, PA

CAS#	Chemical Name
14808-60-7	Quartz Silica Sand (Crystalline Silica)
140-31-8	n-aminoethylpiperazine

16. Other Information

Hazard Communication: This SDS has been prepared in accordance with the federal OSHA Hazard Communication Standard

To the best of our knowledge, the information contained herein is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. 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.

Additional information is available upon request.