



Sakrete High Strength Anchoring Epoxy

SECTION 1. IDENTIFICATION

Product Identifier	Sakrete High Strength Anchoring Epoxy
Other Means of Identification	Sakrete High Strength Epoxy Resin (Part A)
Product Family	KING Home Improvement Products
Recommended Use	Anchoring and bonding applications. Grouting dowels bars for concrete repairs. Filling holes, pits and cracks.
Manufacturer	King Packaged Materials Company, 555 Michigan Drive, Suite 100, Oakville, Ontario, L6L 0G4, www.kpmindustries.com
Emergency Phone No.	Chemtrec, (800) 424-9300, 24 hours/7 days a week
SDS No.	0347
Date of Preparation	January 17, 2020

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 2; Eye irritation - Category 2B; Carcinogenicity - Category 2

Label Elements



Warning

Hazard Statement(s):

Causes skin irritation.

Causes eye irritation.

Prevention:

Do not handle until all safety precautions have been read and understood.

Wash hands and skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

This product contains crystalline silica (quartz 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 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). Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on sufficient animal testing as a result 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).

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Bisphenol A-based epoxy resin	25068-38-6	40-70%	n/a	
Silica, total quartz	14808-60-7	20-40%	n/a	
Trimethylol Ethane Triglycidyl Ether	68460-21-9	7-15%	n/a	
Titanium dioxide	13463-67-7	1-5%	n/a	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Give plenty of water. DO NOT induce vomiting. Get medical attention immediately.

Immediate Medical Attention and Special Treatment

Special Instructions

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.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon Dioxide, Dry Chemical, Water Fog.

Specific Hazards Arising from the Product

None known. Thermal decomposition can be formed.

Special Protective Equipment and Precautions for Fire-fighters

A SCBA is recommended to limit exposure to combustion products when fighting any fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Restrict access to area until completion of clean up. Ensure clean-up is conducted by trained personnel wearing appropriate respiratory protection and chemical protective clothing.

Environmental Precautions

Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting. It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Avoid breathing in this product. Thoroughly clean clothing, shoes and leather

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goods before reuse or dispose of safely. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

Conditions for Safe Storage

Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature ranges between 4°C and 35°C (40°F and 95°F).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Silica, total quartz	0.05 mg/m3 (R) A2		0.1 mg/m3			
Titanium dioxide	10 mg/m3 A4		15 mg/m3			

Appropriate Engineering Controls

Engineering controls to reduce exposures are preferred. Methods include local exhaust ventilation and process enclosure. Other control methods such as the use of personal protective equipment may also be required.

When there is large scale use of this material, local exhaust ventilation with or without process enclosure may be necessary.

Supply sufficient replacement air to make up for air removed by exhaust systems.

Individual Protection Measures

Eye/Face Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin Protection

Wear water-impermeable gloves such as nitrile, PVC, or natural rubber gloves, particularly for prolonged contact. Use face shield if splashing is likely. Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Not normally required if product is used as directed. Use NIOSH approved organic vapour chemical cartridge respirator when air movement is inadequate to control vapour build-up.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White liquid.
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not applicable
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Solubility	Insoluble in water
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Thermal Decomposition: Can yield CO, CO2 and organic Nitrogen compounds.

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Chemical Stability

Normally stable.

Conditions to Avoid

Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

Incompatible Materials

Strong acids, peroxides and other oxidizing agents.

SECTION 11. TOXICOLOGICAL INFORMATION**Likely Routes of Exposure**

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Silica, total quartz		500 mg/kg (rat)	
Titanium dioxide	> 6.82 mg/L (rat)	> 10000 mg/kg (rat)	> 10000 mg/kg (rabbit)

Skin Corrosion/Irritation

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

Serious Eye Damage/Irritation

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

STOT (Specific Target Organ Toxicity) - Single Exposure**Inhalation**

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin 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.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silica, total quartz	Group 1	A2	Known carcinogen	
Titanium dioxide	Group 2B	A4		

Group 2B – Possibly carcinogenic to humans. (Titanium dioxide) Group 1 – Carcinogenic to humans. (Silica, total quartz)

Reproductive Toxicity**Development of Offspring**

No information was located.

Sexual Function and Fertility

No information was located.

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Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

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

Aquatic Invertebrates: Bisphenol A: Water Flea Daphnis/EC50 (48hrs): >1.4 mg/L

Algae: No data available

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

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

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Methods**

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION**Safety, Health and Environmental Regulations****USA****Additional USA Regulatory Lists**

This product contains a chemical known to the State of California to cause cancer.

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SECTION 16. OTHER INFORMATION

SDS Prepared By King Packaged Materials Company

Phone No. 905-639-2993

Date of Preparation January 17, 2020

Date of Last Revision January 17, 2020

Disclaimer To the best of our knowledge, the information contained herein is accurate. However, neither King Packaged Materials Company, nor any of its subsidiaries, assumes 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.

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Sakrete High Strength Anchoring Epoxy

SECTION 1. IDENTIFICATION

Product Identifier	Sakrete High Strength Anchoring Epoxy
Other Means of Identification	Sakrete High Strength Epoxy Hardener (Part B)
Product Family	KING Home Improvement Products
Recommended Use	Anchoring and bonding applications. Grouting dowels bars for concrete repairs. Filling holes, pits and cracks.
Manufacturer	King Packaged Materials Company, 555 Michigan Drive, Suite 100, Oakville, Ontario, L6L 0G4, www.kpmindustries.com
Emergency Phone No.	Chemtrec, (800) 424-9300, 24 hours/7 days a week
SDS No.	0348
Date of Preparation	January 17, 2020

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin corrosion - Category 1B; Serious eye damage - Category 1; Carcinogenicity - Category 1; Reproductive toxicity - Category 2

Label Elements



Danger

Hazard Statement(s):

Causes severe skin burns and eye damage.

May cause cancer.

Suspected of damaging fertility.

Prevention:

Do not handle until all safety precautions have been read and understood.

Wash hands and skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

This product contains crystalline silica (quartz 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 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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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Silica, total quartz	14808-60-7	40-60%	n/a	
Non-Hazardous	Proprietary	20-30%	n/a	
N-(2-Aminoethyl)piperazine	140-31-8	7-15%	n/a	
Modified Polyamide Resin	68953-36-6	7-15%	n/a	
Benzyl alcohol	100-51-6	5-10%	n/a	
4-Nonylphenol	84852-15-3	7-15%	n/a	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Give plenty of water. DO NOT induce vomiting. Get medical attention immediately.

Immediate Medical Attention and Special Treatment

Special Instructions

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.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon Dioxide, Dry Chemical, Water Fog.

Specific Hazards Arising from the Product

None known. Thermal decomposition can be formed.

Special Protective Equipment and Precautions for Fire-fighters

A SCBA is recommended to limit exposure to combustion products when fighting any fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Restrict access to area until completion of clean up. Ensure clean-up is conducted by trained personnel wearing appropriate respiratory protection and chemical protective clothing.

Environmental Precautions

Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting. It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

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SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Avoid breathing in this product. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

Conditions for Safe Storage

Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature ranges between 4°C and 35°C (40°F and 95°F).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Silica, total quartz	0.05 mg/m3 (R) A2		0.1 mg/m3			
Modified Polyamide Resin	10 mg/m3 A4		15 mg/m3			

Appropriate Engineering Controls

Engineering controls to reduce exposures are preferred. Methods include local exhaust ventilation and process enclosure. Other control methods such as the use of personal protective equipment may also be required.

When there is large scale use of this material, local exhaust ventilation with or without process enclosure may be necessary.

Supply sufficient replacement air to make up for air removed by exhaust systems.

Individual Protection Measures

Eye/Face Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin Protection

Wear water-impermeable gloves such as neoprene, nitrile, PVC, or natural rubber gloves, for prolonged contact. Use a face shield if splashing is likely. Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Not normally required if product is used as directed. Use NIOSH approved organic vapour chemical cartridge respirator when air movement is inadequate to control vapour build-up.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Black paste.
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not applicable
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Solubility	Insoluble in water
Other Information	
Physical State	Liquid
Other Physical Property 1	VOC Content: 2 g/L (tested per EPS CFR 40, Part 63, Subpart PPPP, Appendix

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SECTION 10. STABILITY AND REACTIVITY

Reactivity

Thermal Decomposition: Can yield CO, CO₂ and organic Nitrogen compounds.

Chemical Stability

Normally stable.

Conditions to Avoid

Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

Incompatible Materials

Strong acids, peroxides and other oxidizing agents.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Silica, total quartz		500 mg/kg (rat)	
Modified Polyamide Resin	> 6.82 mg/L (rat)	> 10000 mg/kg (rat)	> 10000 mg/kg (rabbit)

Skin Corrosion/Irritation

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

Serious Eye Damage/Irritation

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

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

May cause allergic skin reaction and irritation to the respiratory system.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silica, total quartz	Group 1	A2	Known carcinogen	
Modified Polyamide Resin	Group 2B	A4		

Group 2B – Possibly carcinogenic to humans. (Titanium dioxide) Group 1 – Carcinogenic to humans. (Silica, total quartz)

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Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish: Polyamide Resin: Zebrafish/LC50 (96hrs): >5.0 mg/L

Aquatic Invertebrates: Polyamide Resin: Water Flea Daphnis/EC50 (48hrs): >7.07 mg/L

Algae: No data available

Microorganisms: No data available

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

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	UN 2375	BULK AMINES, LIQUID, CORROSIVE, N.O.S. (4-Nonylphenol)	Class 8	PG III
US DOT	UN 2735	BULK AMINES, LIQUID, CORROSIVE, N.O.S. (N-(2-Aminoethyl)piperazine)	Class 8	PG III

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IATA (Air)	UN 2735	CARTIDGE/BULK: AMINES, LIQUID, CORROSIVE, N.O.S. (N-(2-Aminoethyl)piperazine)	Class 8	PG III
IATA (Air)	UN 2735	CARTIDGE/BULK: AMINES, LIQUID, CORROSIVE, N.O.S. (4-Nonylphenol)	Class 8	PG III

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

USA

Additional USA Regulatory Lists

This product contains a chemical known to the State of California to cause cancer.

SECTION 16. OTHER INFORMATION

SDS Prepared By King Packaged Materials Company

Phone No. 905-639-2993

Date of Preparation January 17, 2020

Date of Last Revision January 17, 2020

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