

QUIKRETE**CEMENT & CONCRETE PRODUCTS™**

F4: Epoxies

SAFETY DATA SHEET
 (Complies with OSHA 29 CFR 1910.1200)

SECTION I: PRODUCT IDENTIFICATION

The QUIKRETE® Companies
 One Securities Centre
 3490 Piedmont Road, Suite 1300
 Atlanta, GA 30305

Emergency Telephone Number
 (770) 216-9580
 Information Telephone Number
 (770) 216-9580

SDS F4B
 Revision: Jun-15

NOTE: TWO SDS ARE REQUIRED FOR THESE PRODUCTS

QUIKRETE® Product Name	Item #(s)
Epoxy High-Gloss Coating	#0703-55 - Part B (Resin)

Product Use: Chemical coatings for concrete

SECTION II - HAZARD IDENTIFICATION

Hazard Statements

Pictograms



GHS Label elements, including precautionary statements

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H 319 Causes serious eye irritation
 H411 Toxic to aquatic life with long lasting effects



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Precautionary statement(s)

- P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/ eye protection/ face protection.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated Clothing. Rinse skin with water/shower,
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS3: Health = 1; Fire = 0; Reactivity = 0, PPE = G

Hazards not otherwise classified (HNOC) or not covered by GHS - None

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical Name	Wt. %	CAS	EINECS
Bisphenol A based epoxy resin	70 - 80	25085-99-8	500-033-5
Bisphenol F polymer	10 - 15	28064-14-4	
Ethyleneglycol monopropylether	3 - 7	2807-30-9	220-548-6
Oxirane derivatives	4 - 8	68609-97-2	271-846-8

Exact concentrations have been withheld as a Trade Secret.

SECTION IV – FIRST AID MEASURES

Precautions: First aid providers should avoid direct contact with this chemical. Wear protective equipment as necessary.

Eye contact: Flush immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Skin contact: REMOVE FROM SKIN IMMEDIATELY. Take off all contaminated clothing immediately. Remove adhering matter immediately. Use waterless hand cleaner. Then wash with lots of water and soap.

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After inhalation: Remove the victim into fresh air. Symptoms include irritation of the respiratory tract of asthmatic reaction.

After ingestion: Do not induce vomiting without medical advice.

Medical Attention: Consult a physician if any of these events occur.

General: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Indication of immediate medical attention and special treatment needed:
Immediately seek medical advice or attention if symptoms are significant or persist.

SECTION V - FIRE FIGHTING MEASURES

Flammable properties: The material can burn if heated. Flashpoint is 190° C (375°F).

Suitable extinguishing media: Water fog or fine spray. Foam. Dry chemical. Carbon dioxide (CO₂). Alcohol resistant foams are preferred for large fires. Use water spray to cool fire-exposed containers.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire. Use caution when using water, contamination of product will generate carbon dioxide gas.

Fire and explosion hazards: Cool containers / tanks with water spray. In the event of fire and/or explosion do not breathe fumes. Heating/burning can release hazardous gases: carbon oxides (CO, CO₂), nitrogen oxides (NO_x). Polymeric MDI decomposes rapidly above 204° C.

Special protective equipment: Wear protective clothing. In case of repairable dust and/or fumes, use self-contained breathing apparatus.

SECTION VI – ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as diatomaceous earth, sawdust, vermiculite, or any appropriate readily available material and sweep or shovel absorbed material into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wash the contaminated area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

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Wear the appropriate personal protective equipment designated in Section 8, remove the leaking container to a containment area and place into an appropriate container to prevent any further spill.

LARGE SPILL: Construct temporary dikes of dirt or sand to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as diatomaceous earth, sawdust, vermiculite, or any appropriate readily available material and sweep or shovel adsorbed material into closed containers for disposal. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

Wear the appropriate personal protective equipment designated in Section 8, close or cap leaking valves and/or block or plug hole in leaking container. Remove the leaking containers to a containment area and place into an appropriate container to prevent any further spill.

Contain material as described above and call the local fire, police, or appropriate emergency response provider for immediate emergency assistance.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of material into sources of water.

GENERAL PROCEDURES: Absorb spill with an emergency spill kit, diatomaceous earth, saw dust or equivalent inert material. Shovel up and dispose of at an appropriate waste disposal facility following applicable laws and regulations.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

GENERAL PROCEDURES: Store product in original containers. Store container in a secure cool, dry, well-ventilated area.

Precautions for safe handling

Avoid contact with skin and eyes. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Avoid breathing in vapors, mists, and aerosols. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature : 50 to 95° F

INCOMPATIBLE MATERIALS: Will react with amines, acids and strong oxidizing agents..



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COMMENTS: If bulging of containers occurs, transfer to a well-ventilated area and open carefully to relieve pressure then reseal.

SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

PEL: Not determined.

TLV: Not determined.

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal protection equipment: Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Eye protection: Tightly fitting safety goggles or face-shield as appropriate.

Hand protection: Solvent-resistant gloves.

Skin and body protection: Solvent-resistant apron and boots. Protective suit. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment with filter classification: N-95 or if oil/liquid aerosols are present P-95 (42 CFR 84). In USA use a NIOSH/MSHA approved respirator.

COMMENTS: Always practice "good personal hygiene" during and after use of this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. DO NOT eat, drink, or smoke in work areas that contain hazardous chemicals.

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

These data do not represent technical or sales specifications.

APPEARANCE/PHYSICAL STATE

Liquid.

ODOR

Light musty to no odor

VAPOR PRESSURE

Heavier than air

**CEMENT & CONCRETE PRODUCTS™****DENSITY**

9.61 lb/gal at 25°C (74° F)

VISCOSITY

2000 to 5000 cps at 25°C (74° F) Brookfield

VOLATILE ORGANIC CONTENT

<17.0 G/L (Calculated)

SECTION X – STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable under recommended storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS

Avoid contact with acids, water, alcohols, amines, ammonia, bases, moist air, and strong oxidizers. Avoid contact with metals such as aluminum, brass, copper, galvanized metals, tin, zinc. Avoid contact with moist organic absorbents. Reaction with water will generate carbon dioxide and heat. Generation of gas can cause pressure buildup in closed systems. Avoid unintended contact with polyols. The reaction of polyols and isocyanates generate heat. Diisocyanates react with many materials and the rate of reaction increases with temperature as well as increased contact; these reactions can become violent. Contact is increased by stirring or if the other material mixes with the diisocyanate. Diisocyanates are not soluble in water and are denser than water and sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition.

HAZARDOUS POLYMERIZATION

Will not occur.

Reactivity: Will react with strong acids and caustics.

SECTION XI – TOXICOLOGICAL INFORMATION

Toxicity note



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Skin Effects: Possible sensitizer to the skin.

Carcinogenicity

IARC: Not Listed by IARC.

NTP: Not listed by NTP.

OSHA: Not listed by OSHA.

GENERAL COMMENTS: This product does not contain substances considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

COMMENTS: The chemical, physical, and toxicological properties have not been thoroughly investigated or tested to the best of our knowledge.

SECTION XII – ECOLOGICAL INFORMATION

Toxic to aquatic organisms, may cause long-term effects on the aquatic environment.

Toxicity to fish static test LC50 - *Oncorhynchus mykiss* (rainbow trout) - > 5,000 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic

Immobilization EC50 - *Daphnia magna* (Water flea) - 7.2 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae Growth inhibition IC50 - *Pseudokirchneriella subcapitata* (algae) - 843.75 mg/l - 72 h (OECD Test Guideline 201)

SECTION XIII – DISPOSAL CONSIDERATIONS

Provisions relating to waste: EPA - Resource Conservation and Recovery Act (RCRA) Hazardous and Solid Waste Management Regulations must be followed.

Disposal information: Dispose of in compliance with all applicable regulations. Can be incinerated by an approved facility that is in compliance with the local regulations. Empty remaining contents. Do not reuse empty containers. This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity or toxicity).

SECTION XIV – TRANSPORT INFORMATION

UN-Number	DOT (U.S.)	TDG (Canada)
	Not Regulated	Not Regulated



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UN proper shipping name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

SECTION XV – OTHER REGULATORY INFORMATION

United States Federal Regulations**Skin Effects:** Possible sensitizer to the skin.**Carcinogenicity****IARC:** Not Listed by IARC.**NTP:** Not listed by NTP.**OSHA:** Not listed by OSHA.**GENERAL COMMENTS:** This product does not contain substances considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA STATUS:** All ingredients in this mixture are listed with the TSCA Chemical Substance Inventory.**California: WARNING:** This product does not contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.**COMMENTS:** The chemical, physical, and toxicological properties have not been thoroughly investigated or tested to the best of our knowledge.

SECTION XVI – OTHER INFORMATION

Last Updated: June 1, 2015**MANUFACTURER DISCLAIMER:** This SDS to the best of our knowledge conforms to the requirements of OSHA 29 CFR 1910.1200, 91/155/EEC and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the SDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Responsibility for the product sold is subject to our standard terms and conditions, a copy of which is available upon request. This company warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to

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be reliable and to represent the best available data on these products, NO GUARANTEE, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS, OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. Liability by this company for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with the proper shipping, handling and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.

End of SDS