

SMITH & CO.

5100 CHANNEL AVENUE
 RICHMOND, CA 94804-4646
 510-237-6842

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: **Permanent Concrete Sealer**

INFOTRAC 24 HOUR EMERGENCY PHONE NO.: 1-800-535-5053

MANUFACTURER: SMITH & CO.
 5100 CHANNEL AVENUE, RICHMOND CA 94804
 510-237-6842

REVISED: 9/1/2009

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

PROPER SHIPPING NAME (49 CFR 172.101): AQUEOUS RESIN SOLUTION, NON FLAMMABLE
 D.O.T. HAZARD CLASS (49 CFR 172.101): UNRESTRICTED
 D.O.T. ID NUMBER (49 CFR 172.101):
 D.O.T. HAZARD NAME (49 CFR 172.101):

PRODUCT DESCRIPTION: A COMPLEX AQUEOUS SOLUTION OF ORGANIC AND INORGANIC ANIONS AND CATIONS WITH NONIONIC OLIGOMERS IN A WATER VEHICLE.

SECTION 2 HAZARDOUS INGREDIENTS

<i>Chemical and Common Name</i>	<i>CAS #</i>	<i>Weight%</i>	<i>OSHA PEL</i>	<i>ACGIH TLV</i>
No hazardous ingredients.				
Hydrogen hydroxylate	Water 7732-18-5	>50%	N/A	N/A
Inorganic anions [proprietary]	N/A [mixture]	<50%	Not Established	Not Established
Inorganic cations [proprietary]	N/A [mixture]	<50%	Not Established	Not Established
Organic anions [proprietary]	N/A [mixture]	<50%	Not Established	Not Established
Organic cations [proprietary]	N/A [mixture]	<50%	Not Established	Not Established
Organic nonionic oligomers [proprietary]	N/A [mixture]	<50%	Not Established	Not Established

SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Clear, colorless, odorless, low viscosity liquid. Causes eye, skin and digestive tract irritation. Spray mist causes irritation to respiratory tract. High pH may be harmful to aquatic life. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.

SKIN CONTACT:

Causes irritation.

EYE CONTACT:

Causes irritation.

INHALATION:

Spray mist irritating to respiratory tract.

INGESTION:

May cause irritation to mouth, esophagus and stomach.

CHRONIC HAZARDS:

No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.

PHYSICAL HAZARDS:

Dries to form glass film which can easily cut skin. Spilled material is very slippery. Can etch glass if not promptly removed.

SECTION 4 - FIRST AID MEASURES

SKIN CONTACT:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.

EYE CONTACT:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

INGESTION:

If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE LIMITS: This material is noncombustible.

EXTINGUISHING MEDIA:

This material is compatible with all extinguishing media.

HAZARDS TO FIRE-FIGHTERS: See Section 3 for information on hazards when this material is present in the area of a fire.

FIRE-FIGHTING EQUIPMENT: The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: chemical goggles, body-covering protective clothing, chemical resistant gloves and rubber boots.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION: Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. See section 8.

ENVIRONMENTAL HAZARDS: Sinks and mixes with water. High pH of this material is harmful to aquatic life, see Section 12. Only water will evaporate from a spill of this material.

SMALL SPILL CLEANUP: Mop up and neutralize liquid, then discharge to sewer in accordance with federal, state and local regulations or permits.

LARGE SPILL CLEANUP: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent runoff from entering into storm sewers and ditches which lead to natural waterways. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material. If containment is impossible, neutralize contaminated area and flush with large quantities of water.

CERCLA RQ: There is no CERCLA Reportable Quantity for this material. If a spill goes off site, notification of state and local authorities is Recommended.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.

STORAGE: Keep containers closed. Store in clean steel or plastic containers. Separate from acids, reactive metals, and ammonium salts. Storage temperature 0-95° C. Loading temperature 45-95 ° C. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:

Wear Chemical goggles.

SKIN PROTECTION:

Wear body-covering protective clothing & gloves.

RESPIRATORY PROTECTION:

Use a NIOSH-approved dust and mist respirator where spray mist occurs.

Observe OSHA regulations for respirator use (29 C.F.R. §1910.134)

ENGINEERING CONTROLS:

Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

STABILITY:

This material is stable under all conditions of use and storage.

COLOR:

Clear & Odorless.

ODOR:

Odorless or musty odor.

pH:

Approximately 12

SPECIFIC GRAVITY:

1.2-1.3 g/cm³ (20°C), 10 lbs/gal

SECTION 10 - STABILILTY AND REACTIVITY

STABILITY: This material is stable under all conditions of use and storage.
CONDITIONS TO AVOID: None.

MATERIALS TO AVOID: Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.

HAZARDOUS DECOMPOSITION PRODUCTS:
Hydrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE DATA: This material has not been tested for primary eye irritation potential. Similar solutions produce corneal, iridal and conjunctival irritation.

This material has not been tested for primary skin irritation potential. Similar solutions produce skin irritation and are more irritating to abraded skin than intact skin. Human experience confirms that irritation occurs when similar solutions get on clothes at the collar, cuffs or other areas where abrasion may occur.

The acute oral toxicity of this product has not been tested. When similar solutions were tested, their single dose acute oral LD50 in rats ranged from 3000 mg/kg to 7000 mg/kg. The acute oral lethality resulted from nonspecific causes.

SUBCHRONIC DATA: In a study of rats fed similar solutions in drinking water for three months, at 200, 600 and 1800 ppm, changes were reported in the blood chemistry of some animals, but no specific changes to the organs of the animals due to such administration were observed in any of the dosage groups. Another study reported adverse effects to the kidneys of dogs fed similar solutions in their diet at 5g/kg/day for 4 weeks, whereas rats fed the same dosage did not develop any treatment-related effects. Decreased numbers of births and survival to weaning was reported for rats fed similar solutions in their drinking water at 1200 and 2400 ppm.

SPECIAL STUDIES: Similar solutions were not mutagenic to the bacterium E. Coli when tested in a mutagenicity bioassay. There are no known reports of carcinogenicity of similar solutions. Frequent ingestion over extended periods of time of gram quantities of similar solutions is associated with the formation kidney stones and other urinary calculi in humans. The ingredients are not listed by IARC, NTP or OSHA as carcinogens.

SECTION 12 - ECOLOGICAL INFORMATION

ECO TOXICITY: The following data is reported for this material: A 96 hour median tolerance for fish (*Gambusia affinis*) of 4640 ppm; a 96 hour median tolerance for water fleas (*Daphnia magna*) of 494 ppm; a 96 hour median tolerance for snail eggs (*Lymnea*) of 1264 ppm; and a 96 hour median tolerance for Amphipoda of 320 ppm.

ENVIRONMENTAL FATE: This material is not persistent in aquatic systems, but its high pH when undiluted or unneutralized is acutely harmful to aquatic life. Diluted material rapidly yields dissolved material in a form that is indistinguishable from natural dissolved material. It does not contribute to BOD. This material does not in and of itself bioaccumulate. None of the ingredients of this product will appreciably bioconcentrate up the food chain.

SECTION 12 - ECOLOGICAL INFORMATION **CONTINUED**

PHYSICAL/CHEMICAL: Sinks and mixes with water. Only water will evaporate from this material.

SECTION 13 - DISPOSAL CONSIDERATIONS

CLASSIFICATION: Disposed material is not a hazardous waste.

DISPOSAL METHOD: Neutralize and landfill solids in accordance with federal, state and local regulations. Flush neutral liquid to sewer accordance with federal, state and local regulations and permits.

SECTION 14 - TRANSPORTATION INFORMATION

DOT UN STATUS: This material is not regulated hazardous material for transportation.

Harmonized Tariff Code: 3402.19.5000

SECTION 15 - REGULATORY INFORMATION

CERCLA: No CERCLA Reportable Quantity has been established for this material.

SARA TITLE III: Not an Extremely Hazardous Substance under §302 Not a Toxic

Chemical under §313. Hazard Categories under §§311/312: Acute

TSCA: All ingredients of this material are listed on the TSCA inventory.

FDA: No Smith & Co. products are intended for use as ingredients of food or on food preparation surfaces, as a general policy.

SECTION 16 - OTHER INFORMATION

Prepared by: Steve Smith

THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO SMITH & CO. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. SMITH & CO. MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OR THE PRODUCT TO WHICH IT RELATES, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OR HANDLING OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES.