

# Material Safety Data Sheet



Sultan Healthcare

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EU Auth. Rep. (MDD 93/42/EEC)

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FOR CHEMICAL EMERGENCY: CALL INFOTRAC 1-800-535-5053 24 Hrs. per day, 7 days per week

Q-Form 10-111, Rev C

Date Revised: January 31, 2008

## 1. Chemical Identification

Common Name: Versalink Porcelain Bonding & Repair System with Etch

Ref #: 70515 – Twenty 0.5 ml ampules

## 2. Composition/Information on Ingredients

Hydrofluoric Acid CAS # 7664-39-3 Percent: 6 %

## 3. Hazards Identification

Acute Toxicity: Corrosive effects on skin, eyes, and digestive tract.

Chronic Toxicity: No information

## 4. First Aid Measures

**Eye Contact:** Irrigate eyes for at least 30 minutes with copious quantities of water, keeping the eyelids apart and away from eyeballs during irrigation. Get competent medical attention immediately, preferably an eye specialist. If a physician is not immediately available, apply one of two drops of ophthalmic anesthetic, (e.g., 0.5 % Pontocaine Hydrochloride solution). Do not use oily drops, ointment or HF skin burn treatments. Place ice packs on eyes until reaching emergency room.

**Skin Contact:** Remove contaminated clothing and immediately wash skin with plenty of water to remove acid. If the following materials are available, limit the washing to five minutes and immerse the burned area in a solution of 0.2 % iced aqueous Hyamine 1622 or 0.13 % iced aqueous Zephiran Chloride. If immersion is not practical, towels should be soaked with one of the above solutions and used as compresses for the burn area. Alternatively, 2.5 % calcium gluconate gel should be massaged into the affected area. Seek medical attention as soon as possible for all burns regardless of how minor they may appear initially.

**Inhalation:** Get medical help immediately. If patient is unconscious, give artificial respiration or use inhalator. Keep patient warm and resting, and send to hospital after first aid is complete.

**Ingestion:** If swallowed, do not induce vomiting. Give large quantities of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

## 5. Fire Fighting Measures

**Fire:** Not considered to be a fire hazard. Fire may produce poisonous or irritating gases.

**Explosion:** Violent exothermic reaction occurs with water. Sufficient heat may be produced to ignite combustible materials. Reacts with metals forming flammable Hydrogen gas.

**Fire Extinguishing Media:** Keep upwind of fire. Use water or carbon dioxide on fires in which Hydrofluoric Acid is involved.

Halon or foam may also be used. In case of fire, the sealed containers can be kept cool by spraying with water.

## 6. Accidental Release Measures

Evacuate the danger area. Apply magnesium sulfate (dry) to the spill area. Follow with an inert absorbent and add soda ash or magnesium oxide and slaked lime. Collect in appropriate plastic containers and save for disposal. Wash spill site with soda ash solution.

## 7. Handling and Storage

Do not open containers until ready for use. As supplied each container contains 0.5 ml of product. The small quantity and low concentration minimizes health and safety risks associated with use of this product. The user is urged to read this MSDS and understand all precautions necessary before using this product.

## 8. Exposure Controls/Personal Protection

Exposure Limit Method: 3 ppm OSHA 8H TWA

Respiratory Protection: None needed under usual conditions.

Eye Protection: Chemical safety goggles

Exhaust Required: Local mechanical exhaust.

Protective Gloves: PVC or neoprene gloves.

Special Protective Clothing: None required.

Hygienic Practices: Use protection suitable for conditions.

## 9. Physical and Chemical Properties

Appearance: Pink gel

Odor: Acrid odor (DO NOT BREATHE FUMES)

Solubility in Water: Completely soluble.

pH (@ 25 C): 0.5

Boiling Point (° C): 100 - 108

Melting Point: - 32 F

Evaporation Rate (Butyl acetate = 1): < 1

Vapor Pressure (mm Hg @ C): 25 @ 20 ° C

Specific Gravity (H<sub>2</sub>O = 1): 1.17 – 1.18

Vapor Density (Air = 1): Greater than 1

Water Reactivity: Will react to produce toxic fumes.

## 10. Stability and Reactivity

Stability: Stable under ordinary conditions

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Liberates hydrogen when reacted with metals. Toxic fluorides are released upon heating. Attacks glass and other silica containing materials forming SiF<sub>4</sub>, a toxic gas.

Conditions to Avoid: Sodium hydroxide, ammonia, sulfuric acid, acetic anhydride, calcium oxide, arsenic trioxide, ethylenediamine.

## 11. Toxicological Information:

Inhalation: Rat LC<sub>50</sub>: 1276 ppm/1H

Investigated as a mutagen, reproductive effector.

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## 12. Ecological Information

Environmental Fate: If the pH is > 6.5, soil can bind fluorides tightly. High calcium content will immobilize fluorides, which can be damaging to plants when present in acid soils.

Environmental Toxicity: This material is expected to be slightly toxic to aquatic life.

60 ppm\*/Fish/Lethal/Fresh Water

\* = time period not specified

> 300 ppm/48hr./Shrimp/LC<sub>50</sub>/Aerated Saltwater

## 13. Disposal Considerations:

Dispose of in a manner consistent with Federal, State, and Local Regulations.

## 14. Transit Information

US DOT

No information available

## 15. Regulatory Information

Hydrogen Fluoride

SARA 302		SARA 313	
RQ	TPQ	List	Chemical Category
100	100	Yes	No

CERCLA	RCRA	TSCA
100	261.33 U134	8(d) No

## 16. Other Information:

Do not open containers until ready for use. Always point the pipette tip away from yourself and others when opening. Gently squeeze the pipette bulb to express the gel, making sure that the tip is pointed away from yourself or others. Always wear safety goggles when handling this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. In no event will the manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information. General properties are to be regarded as guidelines and are not guaranteed for all samples.