

# Safe Solution

## 1. IDENTIFICATION

**Product Name:** Safe Solution Anti-Slip Treatment

**Other Names:**

**Use:** Bath and tile anti-slip treatment

**Supplier:**

**Name:** Global Safe Technologies NZ and Pacific Islands

**Address:** Langtry, 54 State Highway 2, Opaki, Masterton

**Telephone:** (06) 3777555

## 2. HAZARDS IDENTIFICATION

**HAZARDOUS SUBSTANCE. DANGEROUS GOODS**

**Hazard Classification:**

6.1C, 8.1A, 8.2C, 8.3A, 9.1C, 9.3B

**Risk Phrases:**

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R41 Risk of serious damage to eyes.

R52 Harmful to aquatic organisms.

**Safety Phrases:**

S2 Keep out of the reach of children.

S7/9 Keep container tightly closed and in a well-ventilated place.

S36/37 Wear suitable protective clothing and gloves.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61 Avoid release to the environment. Refer to special instructions (see sections 6, 7, 13)

## 3. COMPOSITION

Ingredient	CAS No.	% w/w
Hydrofluoric acid	7664-39-3	4%
Other ingredients not contributing to hazard		96%

## 4. FIRST AID MEASURES

Contact Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning. Do NOT give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

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**Skin:** Remove contaminated clothing. Wash affected areas thoroughly with large volumes of water for 15 to 30 minutes. Gently massage calcium gluconate gel (2.5%) in the burn area for at least 15 minutes or until pain is relieved. Get medical attention.

**Eye:** Rinse carefully and thoroughly with water for 20 minutes while holding eye lid open. Seek medical attention immediately.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, a qualified person may give oxygen. Get medical attention.

**Ingestion:** Do NOT induce vomiting. If conscious, give large volume of water or milk. Get medical attention.

## 5. FIRE FIGHTING MEASURES

**Flammability:** Not flammable (aqueous).

**Suitable extinguishing media:** Use extinguishing media suitable for surrounding fire.

**Hazards from combustion products:** In fire can produce hydrogen fluoride fumes. Hydrogen gas, which is flammable, may be formed by reaction with metals.

**Precautions for fire fighters and special protective equipment:** Corrosive. Wear full protective equipment and self-contained breathing apparatus.

**Hazchem:** 2X

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures:**

Wear protective clothing, gloves (e.g. pvc/neoprene) and safety goggles.

**Containment and clean up**

Prevent spill from entering drains or watercourses. Dilute spill using water. If possible, cover liquid with earth or other absorbent material and collect in plastic container for disposal by permitted means. Wash spill area with water.

## 7. HANDLING AND STORAGE

This substance is subject to a requirement for an emergency management plan, secondary containment and signage, whenever it is held in quantities of 1000 litres or more, either alone or in aggregate with other hazardous substances. See Hazardous substances Emergency Management and Identification Regulations.

**Handling:**

Avoid prolonged or frequent contact. Avoid breathing mist or vapours. Use protective equipment where required.

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**Storage:**

Keep separate from food stuffs. Store in well ventilated area in totally closed container and out of reach of children. Do NOT store with explosives, oxidising agents, organic peroxides or radioactive materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure standards:**

No WES established by OSH.

TLV (as F): 3 ppm (ceiling values) (ACGIH)

MAK: 3 ppm; 2.5 mg/m<sup>3</sup>; BAK 7 mg/g creatinine

MAK as STEL: 6ppm; 5 mg/m<sup>3</sup>

**Engineering controls:**

Not normally required. Normal ventilation is generally adequate.

**Personal protective equipment:**

Wear protective clothing, gloves (pvc/neoprene), safety goggles or face shield if excessive exposure is likely. Always wash after use and before eating, smoking, drinking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Appearance:</b>	Clear liquid
<b>Odour:</b>	Pungent
<b>pH:</b>	1.6
<b>Boiling point:</b>	100°C (approximate)
<b>Freezing point:</b>	0°C (approximate)
<b>Specific Gravity:</b>	1.06 (20°C)
<b>Solubility in water:</b>	Soluble

## 10. STABILITY AND REACTIVITY

**Stability:**

Stable under normal conditions.

**Incompatible materials:**

Strong oxidisers and alkalis.

**Hazardous decomposition products:**

In fire can release hydrogen fluoride fumes and produce oxides of carbon. Can react with metals and other substrates to evolve hydrogen that is flammable.

**Hazardous reactions:**

Corrosive to metals.

## 11. TOXICOLOGICAL INFORMATION

**Eye:** Corrosive to eyes. May cause eye damage.

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**Skin:** Corrosive to skin. May cause severe irritation or permanent damage if not treated promptly.

**Swallowed:** Corrosive. May cause severe irritation of the digestive tract and severe damage if not treated promptly.

**Inhaled:** Corrosive. Spray or mist may cause respiratory tract irritation.

**Chronic:** Chronic effects are not likely at levels that do not produce acute symptoms.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Harmful to the aquatic environment. Toxic to terrestrial vertebrates.

**Mobility, persistence and degradability:** Soluble in water. Expected to be highly mobile in water and wet soils. Not expected to volatilise from water (estimated Henry's Law Constant for hydrofluoric acid  $7.6 \times 10^{-14}$  atm-m<sup>3</sup>/mole). Will not adsorb on soil colloids or sediments (estimated Log K<sub>oc</sub> 1.155 for hydrofluoric acid). Hydrofluoric acid is not expected to bioaccumulate in aquatic organisms (estimated BCF 3.162).

## 13. DISPOSAL CONSIDERATIONS

Dispose of unused or recovered product in accordance with local regulations/requirements. Contact local authorities or a reputable waste disposal company for local requirements.

## 14. TRANSPORT INFORMATION

Classified as dangerous goods for transport.

Maximum quantity permitted in passenger service vehicle: 1 L

UN Number: 1790  
Shipping Name: HYDROFLUORIC ACID 4%  
Class: 8  
Packing Group: II

Hazchem Code: 2X

## 15. REGULATORY INFORMATION

Notified under the Toxic Substances Act.

## CHEMICAL INVENTORY STATUS

Ingredient	Australia	TSCA	EC	Japan	Canada
Hydrofluoric acid	Yes	Yes	Yes	Yes	Yes (DSL)

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<b>16. OTHER INFORMATION</b>
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Prepared using information from suppliers of ingredients and publicly available databases.

Prepared: 6 April 2006

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