

Neutralizer Solution

1. IDENTIFICATION

Product Name: Neutralizer Solution
Other Names: Safe Solution Neutralizer
Use: Bath and tile treatment neutraliser

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. NOT DANGEROUS GOODS FOR TRANSPORT

Hazard Classification:
6.3A, 6.4A, 9.1C

Risk Phrases:
R36/38 Irritating to eyes and skin.
R52 Harmful to aquatic organisms.

Safety Phrases:
S2 Keep out of the reach of children.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S61 Avoid release to the environment. Refer to special instructions (see section 6, 7, 13).

3. COMPOSITION

Ingredient	CAS No.	% w/w
Sodium metasilicate	6834-92-0	<10%
Other ingredients not contributing to hazard		>90%

4. FIRST AID MEASURES

Contact the National 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.

Skin: Remove contaminated clothing. Wash affected areas thoroughly with large volumes of water for 15 to 30 minutes. Get medical attention if irritation persists.

Eye: Rinse carefully and thoroughly with water for 20 minutes while holding eye lid open. Remove contact lenses if present after the first 5 minutes if qualified to do so. Continue rinsing. Seek medical attention.

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Inhalation: Remove to fresh air. If not breathing, give artificial respiration. 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: Using extinguishing media suitable for surrounding fire.

Hazards from combustion products: Carbon dioxide and carbon monoxide may be formed in fire. Hydrolysis of sodium metasilicate occurs when heated to produce free sodium ions and silicic acid.

Precautions for fire fighters and special protective equipment: Breathing apparatus is recommended. In conditions where air may be limited wear self-contained breathing apparatus.

Hazchem: 2T

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures: Avoid contact with skin, eyes or clothing.

Containment and clean up: Prevent spill from entering drains or watercourses. Cover with absorbent material such as sand, soil or sawdust and sweep up into suitable containers. Rinse 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 personal protective equipment where required.

Storage: Keep separate from food stuffs. Store in ventilated area in totally closed container and out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards:

WES: No WES established by OSH.

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Engineering controls: None required. Normal ventilation adequate.

Personal protective equipment: Protective clothing against splashing or contamination: Chemical resistant gloves (pvc/neoprene) and safety goggles or face shield. Wash hands after use and before eating, drinking, smoking or using toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Yellow liquid
Odour:	Solvent
pH:	11.7
Boiling point:	Approximately 100°C
Freezing point:	Approximately 0°C
Specific Gravity:	1.06 (20°C)
Solubility in water:	Soluble

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Incompatible materials: Strong oxidisers.

Hazardous decomposition products: Heating can result in production of sodium ions and silicic acid. In fire, may produce oxides of carbon.

Hazardous reactions: While sodium metasilicate ignites in fluorine, the aqueous formulation makes this highly unlikely.

11. TOXICOLOGICAL INFORMATION

Eye: Very irritating to eyes.

Skin: May cause irritation or permanent damage if not treated promptly. No evidence to indicate product is a sensitiser

Swallowed: May cause irritation of the digestive tract if not treated promptly.

Inhaled: Spray or mist may cause respiratory tract irritation.

Chronic: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Classified by ERMA NZ as harmful in the aquatic environment.

Mobility, persistence and degradability: Based on sodium metasilicate, expected to be highly mobile in soils and unlikely to adsorb to soils and sediments (estimated $K_{oc} = 35.04$). Unlikely to bioconcentrate in aquatic organisms (sodium metasilicate estimated $BCF = 3.162$)

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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

Not classified as dangerous goods for transport in accordance with criteria of UN Model Regulations for Transport of Dangerous Goods 13th Edition.

Maximum quantity permitted in passenger service vehicle: 1L

Hazchem Code: 2T

15. REGULATORY INFORMATION

Notified under the Toxic Substances Act.

16. OTHER INFORMATION

Prepared using information from suppliers of ingredients and publicly available databases.

Prepared: 6 April 2006