

# MATERIAL SAFETY DATA SHEET

**.AntiAcid.** acn 121 138 583

## Section 1: Chemical Product and Company Identification

Company Name & Address	Contact Details
R Ten Plus Pty Ltd Trading As AntiAcid 331 Darebin Road Thornbury, Victoria 3071	Tel:: (03)9497 5482 (Office Hours) Email: info@antiacid.com.au Web: www.antiacid.com.au

### Product Category:

System / Treatment to make Natural Marble, Limestone and Marble Composites Acid Resistant

Date Issued: 05-01-2009

## Section 2: Composition, Information on Ingredients

<b>Solutions Steps A and C:</b>			
Ingredients	CAS No.	% by Weight	EINECS No.
2-butoxyethanol	111-76-2	< 5	203-905-0
Alkyphenol Ethoxylate	9016-45-9	< 7	N/A
d-limonene	5989-27-5	< 2	227-813-5
Sodium hydroxide	1310-73-2	< 5	215-185-5
Sodium silicate	1344-09-9	< 5	215-687-4
Sodium tri-polyphosphate	7758-29-4	< 5	231-838-7
Sodium xylene sulfonate	1300-72-7	< 5	215-090-9
Other Non Hazardous Substances	Confidential	Remaining	N/A
<b>Solutions Step B:</b>			
Ammonium Bi-fluoride	1341-49-7	< 20	215-676-4
Phosphoric acid	7664-38-2	< 20	231-633-2
Other Non Hazardous Substances	Confidential	Remaining	N/A
<p><b>AntiAcid.</b> acn 121 138 583 331 darebin road thornbury 3071 victoria australia phone: 0418 81 6290 fax: 03 9497 5483 e-mail: info@antiacid.com.au <a href="http://www.antiacid.com.au">www.antiacid.com.au</a></p>			

POISONS INFORMATION CENTRE: 13 1126 Anywhere in Australia (New Zealand 0800 764 766)

**Section 3: Hazardous Identification****Emergency Overview:**

AntiAcid treatment/system is intended to create an acid resistant surface to natural marble, limestone and composite marble bench tops. It is not intended for use on other bench top surfaces such as stainless steel, wood, ceramic etc.

Care is required when using the product on stone surfaces and it is advisable to test a small offcut before proceeding with the entire bench top surface. When used as directed, the AntiAcid system is not expected to cause major health or safety problems. Improper use of any solution in the AntiAcid system could lead to eye and skin exposure and possible inhalation or ingestion. Exposed eyes and skin could become red and irritated. Inhalation could produce irritation of the throat and symptoms such as coughing. Ingestion of any component could provoke gastro-intestinal irritation evidenced by choking, spitting, vomiting or other symptoms. In particular Step B could cause delayed symptoms associated with fluoride burns or poisoning. The liquid solution will not burn, however, the outer packaging and containers could burn. The solutions, if evaporated to dryness, may decompose to give off ammonia, corrosive amines, oxides of carbon, nitrogen, sulfur and other irritating/toxic gases. In addition, decomposed Solution Step B could generate hydrogen fluoride. The AntiAcid solutions consist of dilutions, therefore the health and safety properties of these solutions should be proportionately diminished below those provided in the AntiAcid system.

**EYE:** May produce redness and irritation

**SKIN:** May produce redness and irritation

**INHALATION:** May irritate the mouth and throat. Effects from inhalation of Solution Step B could be delayed.

**INGESTION:** Could provoke gastric irritation/nausea. Effects from ingestion of Solution Step B could be delayed.

**Note:** See Section 11, Toxicological Information

**Section 4: First Aid Measures****First Aid Procedures:**

**EYE:** Remove the person from the site and into fresh air. Flush the eyes with plenty of water for at least 15min. If necessary, gently hold open eyelids open during flushing with water. Obtain immediate medical attention

**SKIN:** Remove the person from the site and into fresh air. Remove contaminated clothing and shoes. First rinse affected area with water, then wash with soap and water. If irritation or symptoms persist, seek medical attention immediately. Launder or discard contaminated clothing.

**INGESTION:** Obtain immediate medical attention. Allow the conscious person to drink one or two cups of water. Do not induce vomiting unless directed to do so by medical personnel. Should vomiting occur, be sure to keep the victim's head below the hips to avoid aspiration of vomit into the lungs.

**INHALATION:** Obtain immediate medical attention. Move the victim into fresh air. If the victim has difficulty breathing, administer oxygen. Administer artificial respiration if the victim is not breathing.

**NOTE TO PHYSICIAN:**

Large exposure to Solution Step B could provoke system effects such as hypocalcaemia and hypo magnesia, Symptomatic of fluoride exposure.

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## Section 5: Fire Fighting Measures

### Fire and Explosive Properties:

Flash Point and Method:	N/A (Same as water)
LEL / UEL in air:	N/A
Auto ignition temperature:	N/A
Known/anticipated hazardous combustion:	N/A

### Extinguishing Media:

The AntiAcid system or its solutions are essentially non-flammable. The outer packaging or the container may burn. Control fire with appropriate media. (dry chemical, water spray, water fog, CO<sub>2</sub>, foam or sand/earth.

### Fire Fighting Instructions:

Due to the possibility of evolution of toxic gases, fire fighters should wear NIOSH approved self-contained breathing apparatus and full protective gear. Contain run-off water.

## Section 6: Accidental Release Measures

**Small Spills:** Wipe up with cloths, paper towels or similar materials. Wash off residue with soap and water. Put used materials in solid waste.

**Large Spills:** Contain the spill with dikes of sand, vermiculite clay or other appropriate material. Absorb liquid with material used to make the dike. Shovel or sweep up the absorbed material and dispose as solid waste in accordance with national guidelines / requirements

## Section 7: Handling and Storage

### Handling:

When manufacturing or handling bulk materials, wear appropriate chemical resistant rubber gloves, safety glasses and protective clothing. Avoid breathing any dusts or mists that may be generated.

When using finished product, wear rubber latex type gloves and safety glasses.

After handling any amount, wash hands thoroughly with soap and water.

### Storage:

Keep containers tightly sealed. May be stored in any suitable chemical storage area. Avoid extremes of temperature. **Recommended storage temperature +5 degree Celsius and higher**

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## Section 8: Exposure Controls, Personal Protection

### Engineering Controls:

Use natural or mechanical ventilation

### Personal Protective Equipment (PPE)::

EYE / FACE: Safety Glasses

SKIN: Rubber Gloves

BODY: Protective Clothing

### Exposure Guidelines (mg/m3 unless otherwise indicated) Air level only:

Ingredients	OSHA	NIOSH	ACGIH
2-butoxyethanol	PEL 50ppm over 8Hr work shift	RAEL*is 5ppm averaged over 10Hr work shift	RAEL*is 20ppm averaged over a 8Hr work shift
Ammonium Bifluoride	PEL 2.5mg/m3 averaged over 8Hr work shift	2.5mg/m3 averaged over 10Hr work shift. 5mg/m3 not to be exceeded during any 15min work period	2.5mg/m3 averaged over a 8Hr work shift
Phosphoric acid	PEL 1mg/m3 averaged over 8Hr work shift	1mg/m3 averaged over 10Hr work shift. 3mg/m3 not to be exceeded during any 15min work period	1mg/m3 averaged over a 8Hr work shift. 3mg/m3 as a STEL
Sodium Hydroxide	PEL 2mg/m3 over 8Hr work shift	2.5mg/m3 not to be exceeded at any time	2.5mg/m3 not to be exceeded at any time

\* RAEL = Recommended Airborne Exposure Limit

## Section 9: Physical and Chemical Properties

Appearance:	Solution Step A and C - yellow/green liquid Solution Step B - orange/brown liquid
Odour:	Solution Step A and C - citris Solution Step B - almond
Physical State:	Liquid (all components)
pH: (as packaged)	Solution Step A and C - Approximately 12pH Solution Step B - 3-4pH
Vapour pressure:	Similar to water (all solutions)
Vapour density:	Similar to water (all solutions)
Boiling point:	Similar to water (all solutions)
Freezing/melting point:	Similar to water (all solutions)
Solubility in water:	Complete (all solutions)
% Volatiles:	approx 50 to 80% as water vapour (all solutions)
Specific gravity:	Greater than water (all solutions)

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## Section 10: Stability and Reactivity

<b>Chemical Stability::</b>	Stable (all components)
<b>Hazardous polymerization:</b>	Will not occur (all components)
<b>Conditions to avoid:</b>	Intense heat (all components) Storage in aluminium or copper containers (Solution Step A & C) Storage in metal containers (Solution Step B)
<b>Incompatibility with other materials:</b>	<b>All Components:</b> Strong oxidising agents (e.g. bleach) & halogens/metals <b>Solution Step A &amp; C:</b> Strong acids <b>Solution Step B:</b> Strong alkali's
<b>Hazardous decomposition products:</b>	Oxides of nitrogen, carbon and sulfur, ammonia, corrosive amines (all components). Hydrogen fluoride from decomposition of Solution Step B

## Section 11: Toxicological Information

### Exposure Guidelines (mg/m3 unless otherwise indicated) Air level only:

<b>EYE:</b>	No Data for product components. Alkyl phenol Ethoxylate: Mild irritant in Draize test (rabbit)   No Data for other ingredients.	
<b>SKIN:</b>	No Data for product components. 2-butoxyethanol: 220mg/kg (rabbit) Alkyl phenol Ethoxylate: >1000mg/kg (rabbit), slight irritant in Draize test No Data for other ingredients.	
<b>INGESTION:</b>	<b>Product or Ingredient</b>	<b>LD50 for rat or other animal</b>
	Sodium tripolyphosphate	3120 mg/kg
	Phosphoric acid	1530 mg/kg
	Sodium hydroxide	>90 mL/kg
	2-butoxyethanol	470 mg/kg
	Alkyl phenol ethoxylate	>2500 mg/kg
	Ammonium bifluoride	No data
	D-limonene	4400 mg/kg
	Sodium xylene sulfonate	>2000 mg/kg
<b>Carcinogenicity and Mutagenic effects:</b>	No components of this product are listed as carcinogens by OSHA, NIOSH and ACGIH	

## Section 12: Ecological Information

There is no data on the effect of this product on aquatic or terrestrial life form.

The detergent components and percentage of this product are bio gradable.

## Section 13: Disposal Considerations

Dispose of according to local state, or national regulation, as directed in Section 6. Uncleaned containers should be rinsed with clean water and disposed of in the same manner as its contents.

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**Section 14: Transportation Information**

DOT (HM 181):

**AntiAcid KIT:**

Land Transport ORM-D

Air Transport ORM-D "Corrosive Liquid Acidic Inorganic NOS"

**Components of AntiAcid Kit in bulk transport:****Solutions Step A & C:** Not regulated**Solutions Step B:** Class 8 (UN3264. Corrosive Liquid Acidic Inorganic NOS), PGIII**International Transport Regulations:****Solutions Step A & C:** Not regulated**Solutions Step B:** Class 8 (UN3264. Corrosive Liquid Acidic Inorganic NOS), PGIII**Section 15: Regulatory Information**

	<b>STEP A &amp; C</b>	<b>STEP B</b>
<b>Label Requirement:</b>	Xi	Xi & C
<b>Classification:</b>	Irritant	Irritant & Corrosive
<b>Risk Phrases Combined:</b>	R20/21/22 - R36/38	R20/21/22 - R36/37/38
<b>Risk Phrases Single:</b>	R43	R43
<b>Safety Phrases Combined:</b>	S24/25 - S36/37/38	S20/21 - S24/25 - S36/37/38
<b>Safety Phrases Single:</b>	S2 - S26 - S46 - S64	S2-S13-S26-S39-S41-S44-S46-S64

**Section 16: Other Information**

Keep out of reach of children.

**Do Not Swallow****Warning:** Eye and skin irritant - wear latex rubber gloves and safety glasses.**First Aid:****Eye:** Flush eyes with water for 15 minutes. Seek Medical attention or contact Poisons Australia - number below**Skin:** Remove affected clothing. Flush skin with plenty of water. If irritation persists, seek medical attention.**If swallowed:** Seek medical attention immediately. Have victim, if conscious drink water or milk.

Do Not induce vomiting unless directed to do so by medical personnel

**Disclaimer:**

To the best of our knowledge, the information contained herein is accurate. However, AntiAcid does not assume any liability whatsoever for the accuracy of the information contained herein. AntiAcid assumes no legal responsibility for use of or reliance upon this data. It is the user's sole responsibility to judge the suitability of this product. All materials may present unknown hazards and should be used with caution at all times. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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