

# Maintenance Solution™

Date of issue: 6 April 2006

## 1. IDENTIFICATION

**Product Name:** The Maintenance Solution  
**Other Names:** Clean Step  
**Use:** Heavy duty cleaner/degreaser

**Supplier:**

**Name:** Global Safe Technologies (Australia) Pty Ltd  
**Address:** 14 Solo Crescent, Fairfield NSW 2165  
**Telephone:** 1 300 668 620

## 2. HAZARDS IDENTIFICATION

### HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS

Classified as hazardous according to criteria of NOHSC.

Classified as not dangerous goods for transport by road and rail according to criteria of ADG 6.

**Hazard Classification:**

Irritating to eyes and skin.

**Risk Phrases:**

R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
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 sections 6, 7, 13).

## 3. COMPOSITION

Ingredient	CAS No.	% w/w
2-butoxyethanol	111-76-2	<10%
Potassium hydroxide	1310-59-3	<1%
Other ingredients not contributing to hazard		>60%

## 4. FIRST AID MEASURES

Contact a Poisons Information Centre (Phone 13 11 26) 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. Get medical attention if irritation develops.

**Eye:** Rinse carefully and thoroughly with water for 20 minutes while holding eyelid 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. Call physician.

## 5. FIRE FIGHTING MEASURES

**Flammability:** Requires source of ignition.

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

**Hazards from combustion products:** Carbon dioxide, carbon monoxide and phosphates may be produced.

**Precautions for fire fighters and special protective equipment:** Wear full protective equipment and self-contained breathing apparatus if air supply may be limited.

**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. Rinse spill area with water.

## 7. HANDLING AND STORAGE

**Handling:**

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

**Storage:**

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure standards:**

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TWA (NOHSC): Potassium hydroxide 2 mg/m<sup>3</sup> (peak limitation); 2-butoxyethanol  
TWA 20ppm, 96.9mg/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>	Purple liquid
<b>Odour:</b>	Solvent odour
<b>pH:</b>	11.4
<b>Boiling point:</b>	100°C (approximate)
<b>Freezing point:</b>	0°C (approximate)
<b>Specific Gravity:</b>	1.05 (20°C)
<b>Solubility in water:</b>	Soluble

**10. STABILITY AND REACTIVITY****Stability:**

Stable under normal conditions.

**Incompatible materials:**

Strong oxidisers and acids.

**Hazardous decomposition products:** In fire can produce oxides of carbon and phosphates.

**Hazardous reactions:** None anticipated.

**11. TOXICOLOGICAL INFORMATION**

**Eye:** May cause irritation to eyes if not treated promptly.

**Skin:** May cause irritation to skin if not treated promptly. May cause allergic skin reactions in some people.

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

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

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

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Toxic in the aquatic environment.

**Mobility, persistence and degradability:**

Expected to have high mobility in the soil (2-butoxyethanol estimated  $K_{oc}=67$ ). 2-butoxyethanol is not expected to bioconcentrate in aquatic organisms (estimated BCF = 3). Volatilisation of 2-butoxyethanol from water and moist soils is likely based on an estimated Henry's Law Constant of  $1.6 \times 10^{-6}$  atm-m<sup>3</sup>/mole. 2-butoxyethanol is not expected to adsorb onto soil particles or sediments based on log  $K_{ow}$  of 0.83.

## 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 by road or rail according to criteria of ADG 6.**

**Hazchem Code:** 2X

## 15. REGULATORY INFORMATION

<u>Ingredient</u>	<u>Australia</u>	<u>TSCA</u>	<u>Canada</u>
2-butoxyethanol (CAS 111-76-2)	Yes	Yes	Yes (DSL)
Potassium hydroxide (CAS 1310-59-3)	Yes	Yes	Yes (DSL/NDSL)

## 16. OTHER INFORMATION

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

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