

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: 23/159 Chifley Street, Wetherill Park, NSW 2164
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/m³ (peak limitation); 2-butoxyethanol
TWA 20ppm, 96.9mg/m³

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

Physical state:	Liquid
Appearance:	Purple liquid
Odour:	Solvent odour
pH:	11.4
Boiling point:	100°C (approximate)
Freezing point:	0°C (approximate)
Specific Gravity:	1.05 (20°C)
Solubility in water:	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 1.6×10^{-6} atm-m³/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

Ingredient

2-butoxyethanol (CAS 111-76-2)
Potassium hydroxide (CAS 1310-59-3)

Australia

Yes
Yes

TSCA

Yes
Yes

Canada

Yes (DSL)
Yes (DSL/NDL)

16. OTHER INFORMATION

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

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