

Clean Step

1. IDENTIFICATION

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

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:

6.1E, 6.3A, 6.4A, 6.5B, 9.1B

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 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 develops.

Clean Step

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

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.

Storage:

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

Clean Step

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards:

WES: Potassium hydroxide ceiling 2 mg/m³; 2-butoxyethanol TWA 25ppm, 121mg/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.

Clean Step

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

Classified as dangerous goods for transport.

Maximum quantity permitted in passenger service vehicle: 100 mL

UN Number: 3082
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class: 9
Packing Group: III

Hazchem Code: 2X

15. REGULATORY INFORMATION

Notified under the Toxic Substances Act.

<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)
Quaternary ammonium compounds (CAS 68424-85-1)	Yes	Yes	Yes (DSL)
Sodium metasilicate (CAS 6834-92-0)	Yes	No	Yes (DSL)

16. OTHER INFORMATION

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

Prepared: 6 April 2006