



# ENVIRO TECHNOLOGIES PACIFIC PTY. LTD.

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## Material Safety Data Sheet

SECTION 1		IDENTIFICATION	
<b>Product Name: ENVIRO Phosphate Free Laundry Powder</b>			
UN Number	None allocated	HAZCHEM CODE	None allocated, recommend to consider 2[Z]
Dangerous Goods Class	Not relevant	NOHSC Classification	Classified as hazardous according to NOHSC criteria (pH> 10)
Packaging Group	III	Poisons Schedule	None Allocated
Uses	Laundry detergent	Environmentally friendly	Laundry detergent free of Phosphates
SECTION 2		COMPOSITION	
CHEMICAL DESCRIPTION		CAS No.	Proportion %
Linear dodecyl alcohol condensed with ethylene oxide		68131-39-5	<5%
Sodium Carbonate		497-19-8	>50%
Sodium Metasilicate		10-02-0020	<15%
Sodium alkylbenzene Sulfonate		85117-50-6	<5%
Sodium Carboxymethyl Cellulose		9004-32-4	<5%
SECTION 3		HAZARDS IDENTIFICATION	
<b>Most Important Hazards</b>			
Adverse human health effects	Mildly toxic by ingestion, eye irritant, prolonged exposure (skin contact) will cause loss of natural oils and eventual tissue attack and irritation		
Environmental effects	If released into waterways, the alkaline nature of this product may change the pH of the waterway. At pH 10-11 fish mortality is likely, also reduced oxygen in waterway has adverse effects on marine life. [Goldfish mortality 10.9 and bluegill mortality 10.5]		
<b>Physical and Chemical Hazards</b>	Incompatible with oxidizing agents and strong acids		
Further hazards	Ingestion may cause regurgitation and foaming, if foam reaches the lungs there is a risk of drowning in the foam.		
Classification / Specific hazards	Not applicable. Product is not flammable, if present in a fire toxic gases may be evolved.		
SECTION 4		FIRST AID MEASURES	
Contact with skin	<b>Remove contaminated clothing and gently flush affected areas with water. Continue to flush with water until skin no longer feels soapy. Seek medical attention. Launder contaminated clothing before re-use.</b>		
Contact with eyes	<b>Hold eyelids apart and flush eye(s) with gently running water. Continue flushing for at least 15 minutes. Seek medical attention.</b>		
Ingestion	<b>In the unlikely event of ingestion do not induce vomiting, contact a doctor or poisons information centre.</b>		
Inhalation	<b>If over exposure occurs move from the affected area immediately to fresh air. If any other than minor symptoms are displayed seek immediate medical attention.</b>		
Other Information	Poisons Information Centre is on 13 11 26 Australia wide (Not available in PNG)		

<b>SECTION 5</b>	<b>FIRE - FIGHTING MEASURES</b>
<b>Extinguishing media</b>	
- Suitable	Not flammable, will not support combustion. Compatible with water, foam, CO <sub>2</sub> or DCP extinguishing media.
- Not suitable	None known
<b>Specific Hazards</b>	None known.
<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
Personal Precautions	In normal use no PPE required. When using large quantities or where there is a likelihood of heavy contamination, recommended to wear dust proof goggles and PVC or rubber gloves. Should an inhalation risk exist, recommended to wear at least a class P1 [Particulate] respirator.
Environmental Precautions	In the event of a bulk spillage, contact emergency services if available and appropriate. Wear dust proof goggles, PVC or rubber gloves, a class P1 respirator and coveralls.
	Prevent spill entering drains or waterways, collect and place in sealable containers for disposal at an approved council or EPA landfill.
Methods for cleaning up	Shovel into sealable containers, broom up final residues and add to the containers. Area of spill site may be finally hosed down with water.
<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
<b>Handling</b>	Not regulated for transport purposes.
Technical measures	Keep away from oxidizing agents, acids and foodstuffs.
<b>Storage</b>	Store in a cool, dry, well ventilated area, removed from direct sunlight. Ensure that containers are adequately labeled, protected from physical damage and sealed when not in use. Check regularly for spillages.
<b>Storage conditions</b>	Store in a cool, dry, well ventilated area out of direct sunlight.
<b>Incompatible products</b>	Oxidizing agents and acids.
Packaging	
<b>Packaging Materials</b>	
- Recommended	Plastic drums, pails or bags, steel drums or pails (all re-sealable)
- Not Suitable	None known
<b>SECTION 8</b>	<b>EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
<b>Engineering measures</b>	Local mechanical ventilation recommended
<b>Personal protective equipment</b>	No PPE normally required except for spillages or excessive exposure
Hand protection	PVC or rubber gloves for excessive exposure or spillages
Eye protection	Dust proof goggles for excessive exposure or spillages
Skin and body protection	General work clothes and safety boots as required
<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
<b>Appearance</b>	White free flowing powder
Physical state	Powder
Form	Free flowing
Colour	Off-White to cream
Odour	None readily noticeable, faint characteristic odour may be detected.
pH	11.6 fro a 1% aqueous solution
<b>Specific temperatures</b>	
Freezing	Not relevant
Boiling	Not relevant
<b>Flammability characteristics</b>	Not flammable
Flash point	Not relevant

Oxidizing properties	None
Specific gravity	Bulk density ~ 0.4 g cm <sup>-3</sup>
<b>Solubility</b>	
In water	Fully miscible
In organic solvents	Not relevant
<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
Stability	Stable under normal (ambient) conditions
Hazardous reactions	Strong acids and oxidizing agents
Materials to avoid	Strong acids and oxidizing agents
Hazardous decomposition products	Expected to be oxides of nitrogen, carbon and sulfur.
<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
Acute toxicity	None known
Local effects	Irritant dust
Sensitisation	None known, prolonged exposure may cause dermatitis from loss of natural oils from skin.
<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
Mobility	Particularly immobile except in strong winds, product is a powder.
Biodegradability	Anionic surfactants selected fro this product are all biodegradable.
Ecotoxicity	Surfactants reduce oxygen levels in water and threat to marine life is from pH or solutions with bluegill mortality at pH of 10.5 and Goldfish at ph of 10.9.
<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
Waste from residues	Dispose of to local approved EPA or Council landfill.
Contaminated Packaging	Dispose of in normal wastes to approved EPA or Council landfills.
<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
	Not regulated fro transport purposes
<b>UN Number</b>	Not applicable / not allocated
<b>Hazchem</b>	None allocated, consider 2[Z]
<b>Dangerous Goods Class and Subsidiary Risk</b>	Not regulated
<b>Packaging Group</b>	Not allocated treat as PG III
<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
<b>Labelling</b>	Not regulated except for Consumer Affairs / weights and measures
- Risk Phrases	R36/37/38; Irritating to eyes., respiratory system and skin
- Safety Phrases	S22; Do not breathe dust
	S24/25 ; Avoid contact with skin and eyes
<b>Classifications / Symbols</b>	Not applicable
<b>Note</b>	
<b>SECTION 16</b>	<b>OTHER INFORMATION</b>

<b>Uses</b>	Product is a biodegradable laundry powder with a broad application and is free from phosphates which can cause serious environmental problems.
	ENVIRO Phosphate Free laundry Powder is a balanced blend of alkaline builders to break up soils.
	Product also contains water conditioners to promote cleaning under hard water conditions.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. The responsibility for products sold is subject to our standard terms and conditions. Please read all labels carefully before using product.

<b>CHEMIST:</b>	G.A.L.. Paul, FRACI, FIChE, CPChem, CEng, MFACS (Life) MAIEnergy, CSci.	<b>DATE PREPARED;</b>	May 2005
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