

# Environmental Statement

An environmental statement from The Robertson Partnership concerning the benefits of Dry Lube.



## Environmental Statement

The Robertson Partnership are a firm of Consulting Civil, Structural and Environmental Engineers with over 20 years experience in environmental engineering and recipients of the following awards:- Engineering Council Environmental Award 1999 “Engineering in the Natural Environment”, BP Chairman’s Award 1999 For Health Safety and Environmental Excellence, Pan European Certificate of Environmental Excellence, Highly Commended - 2002 SEPA Habitat Enhancement Initiative Awards Scheme. The following environmental statement highlights the benefits of using the DryLube system compared with conventional detergent based lubricants.

### Introduction

Current bottling operating procedures rely on the use of a detergent based lubricant, the toxicity of which is exacerbated by the use of biocides. This method of operation requires large volumes of water and detergent, which is not recycled or reused. The environmental impacts associated with this method of operation are:-

- High water usage.
- Trade effluent discharge of detergent with the associated BOD/COD loading on effluent treatment plant.
- Disposal in accordance with current EU directives.
- Increase risk of spillages due to high volumes.
- Increased safety risk due to spillages.
- Requires greater emphasis on good housekeeping to maintain the required health and safety standards for workers and product.

### DryLube System

The DryLube system is based on a departure from traditional chemical based detergent lubricants to a synthetic food safe lubricant manufactured from the ingredients on the FDA food safe ingredients list. The properties of the DryLube include very low toxicity, when swallowed, very low toxicity in an aquatic environment, no skin or eye irritation and is non-sensitizing.

The environmental benefits of using the DryLube system compared to the conventional detergent based system are: -

- Significantly reduced volumes of product required compared to volumes of detergent and water. Typical volume reductions are in excess of 99%.
- Elimination of requirement for water consumption for lubrication.
- Elimination of waste water/detergent mix requiring disposal.
- Decreases the risk of spoiled products and subsequent clean up and disposal cost.
- Reduction for offsite disposal thus reducing trade effluent costs.
- Does not support the growth of bacteria which arises from the water and eliminates the need to use a biocide which is added to detergents.
- Reduces risk of spillages.
- Reduced Health and Safety risks providing a safer working environment by eliminating slip/trip accidents attributable to floors wetted by detergent lubricants. Improvement rates of 50% pa on an ongoing basis have been recorded in slip/trip accidents (not all being attributed to wet floors).