



## **Lawry Precision Targets®**

**Technology Fact Sheet for Lawry Shooting Sports Inc.**

### **Performance Claim**

Lawry Shooting Sports Inc.'s Precision Targets®, when used and applied in accordance with the manufacturer's instructions, and after simulated physical degradation and/or leaching with acid, will:

1. Comply with the "non-hazardous" material criterion of Ontario Provincial Regulation 558, based on the Toxicity Characteristic Leaching Procedure (U.S. EPA) for relevant parameters;
2. Be considered non-toxic to terrestrial invertebrates, based on results of an acute toxicity test using a standard earthworm species (Draft Environment Canada method), which yielded 7- and 14-day LC50s<sup>1</sup> of >100%;
3. Be considered non-toxic to plants and bacteria:
  - Plants:** based on the results of an acute seedling germination toxicity test using a standard seedling species (lettuce; U.S. EPA method), which yielded a 5-day LC50<sup>1</sup> of >100%, and the results of an acute aquatic toxicity test for freshwater aquatic algae growth (Environment Canada method), which yielded an IC50<sup>2</sup> >100 %; and,
  - Bacteria:** based on the results of the solid-phase Microtox® bacterial luminescence test (Environment Canada method), which yielded a 15-minute EC50<sup>3</sup> of 2,880 ppm.

<sup>1</sup>LC50 – median lethal concentration; the concentration of material that is estimated to be lethal to 50% of the test organisms (modified from Environment Canada, 2000b).

<sup>2</sup>IC50 – median inhibition concentration; the concentration estimated to cause a 50% reduction in growth compared to a control (modified from Environment Canada, 1992a).

<sup>3</sup>EC50 – median effective concentration; the concentration of substance that is estimated to cause a specified effect in 50% of the individuals exposed to that concentration (modified from Environment Canada, 1992b).

### **Technology Description and Application**

Lawry Precision Targets are clay pigeons/targets used for trap, skeet and sporting clay shooting. They are made from approximately 65% High Calcium Limestone (Calcium Carbonate) and 35% Trolumen 250 (Petroleum Pitch). These targets were developed in order to address the environmental concerns with other targets that have a high sulfur content.

### **Verification**

The nature of the various tests used to demonstrate the performance claims were of a standardized nature. Modifications of the physical state of the Precision Targets® (i.e., crushing and grinding) were required to simulate physical breakdown. The verification was completed by ESG International (Guelph, Ontario) using ETV Canada's General Verification Protocol (March 2000).



### **What is the ETV Program?**

The Environmental Technology Verification (ETV) Program is a joint Environment Canada - Industry Canada initiative delivered by ETV Canada Inc. The ETV Program is designed to support Canada's environment industry by providing credible and independent verification of technology performance claims.

### **For more information on Lawry's Precision Targets® please contact:**

Lawry Shooting Sports Inc.  
P.O. Box 2153  
25 Industrial Drive  
Caledonia, Ontario  
N3W 2G6 Canada  
Tel.: (905) 765-3343  
Fax: (905) 765-2178  
E-mail: [lawryss@aol.com](mailto:lawryss@aol.com)  
[www.lawryshootingsports.com](http://www.lawryshootingsports.com)

### **ETV Canada Contact Information:**

ETV Canada Inc.  
867 Lakeshore Road  
Burlington, Ontario  
L7R 4A6 Canada  
Tel.: (905) 336-4546  
Fax: (905) 336-4519  
E-mail: [etv@etvcanada.com](mailto:etv@etvcanada.com)  
[www.etvcanada.com](http://www.etvcanada.com)