

## **Environmental Risk Assessment of *Bacillus thuringiensis* strain ATCC 13367 under the Canadian Environmental Protection Act 1999 (CEPA 1999)**

Souad El Ouakfaoui<sup>\*</sup>, Lee-Ann Tsan<sup>2</sup>, Théophile Paré<sup>1</sup>, and Kiera Delgaty<sup>1</sup>

<sup>1</sup>New Substances Branch, Biotechnology Division, Risk Assessment Directorate Environment Canada, Gatineau, Québec, Canada, K1A 0H3

<sup>2</sup>College of Physical and Engineering Science, University of Guelph, Guelph, ON Canada N1G 2W1

The Canadian Environmental Protection Act (CEPA, 1999) requires that the Government conducts a screening-level risk assessment (SLRA) of the current 43 microbial strains on the Domestic Substances List (DSL). The presence of these strains on the DSL means that they are not 'new' but are (or were) in commercial use and, therefore, are exempt from requirements of the New Substances Notification Regulations. *Bacillus thuringiensis* (*Bt*) strain ATCC 13367 is among the listed strains. It is used in combination with enzymes and other micro-organisms in non-pesticidal applications such as in drains, sewers, grease traps, septic systems and

waste water treatment facilities. The SLRA of the DSL microbial strains consists of integrating the assessment of known or potential exposure from intended and potential uses (taking into account its survival and/or persistence in the environment) with known or potential adverse effects (i.e., toxicity and/or pathogenicity) on the environment and on human health. The poster outlines the SLRA of *Bt* strain ATCC 13367 from the environmental point of view. The data gathering on *Bt* strain ATCC 13367 is ongoing as further studies are in progress to help generate knowledge about its potential long term effects in its current and potential uses.

---

\* Corresponding author. Mailing address: New Substances Branch, Biotechnology Division, Risk Assessment Directorate Environment Canada, Place Vincent Massey, 351 St-Joseph Boulevard, 14<sup>th</sup> Floor, Gatineau, Québec, Canada, K1A 0H3. Phone: (613) 994-6656, Fax: (613) 953-7155, E-mail: souad.elouakfaoui@ec.gc.ca