

**2013 Toxics Reduction Plan Summary for
GlaxoSmithKline
(Prepared in Compliance with the Toxics Reduction Act, 2009
& Ontario Regulation 455/09)**

December 2013

Ref: 3129-02

Prepared for:



GlaxoSmithKline
Mississauga, Ontario

Prepared by:



Enviro-Stewards
Engineers & Scientists

Enviro-Stewards Inc.
1 Union Street
Elmira, Ontario

BASIC FACILITY INFORMATION

| | | |
|---|--|---------------------------|
| Substance name(s) & CAS No.(s) | Substance Name Benzoyl peroxide | CAS No. 94-36-0 |
| Reason for using this toxic substance | This substance is used at the facility as an active medicinal ingredient in the manufacture of topical pharmaceutical products | |
| NPRI ID No. | 0000005707 | |
| O. Reg 127/01 ID No. | - | |
| Legal name of owner | Glaxosmithkline Inc. | |
| Trade name of owner | - | |
| Legal name of operator (if different) | - | |
| Trade name of operator (if different) | - | |
| Mailing address of owner | 7333 Mississauga Road, Mississauga (Ontario) | |
| Mailing address of operator (if different) | - | |
| 2-digit NAICS code | 32 | |
| 4-digit NAICS code | 3254 | |
| 6-digit NAICS code | 325410 | |
| Spatial coordinates (UTM & NAD83) | Latitude: 43.61590 Longitude: -79.75650 Zone: 17 Easting: 600338 Northing: 4829964 | |
| Parent Company (if applicable) | - | |
| Legal name | - | |
| Mailing address (if different from facility) | - | |
| Percent owned by parent company | - | |
| Canada Customs & Revenue Agency No. | - | |
| Mailing address | - | |

TECHNICAL CONTACT

| | |
|---------------------------------------|----------------------------|
| Name | Brad Spielmacher |
| Position | Environmental Advisor |
| Phone number | (905) 819-3000 |
| Email | brad.g.spielmacher@gsk.com |
| Mailing address (if different) | - |

PERSON WHO COORDINATED THE PLAN

| | |
|---------------------------------------|----------------------------|
| Name | Brad Spielmacher |
| Position | Environmental Advisor |
| Phone number | (905) 819-3000 |
| Email | brad.g.spielmacher@gsk.com |
| Mailing address (if different) | - |

PERSON WHO PREPARED THE PLAN

| | |
|---------------------------------------|--|
| Name | Lloyd Hipel |
| Position | Project Manager |
| Phone number | (519) 578-5100 |
| Email | lhipel@enviro-stewards.com |
| Mailing address (if different) | 1 Union Street, Elmira, ON N3B 3J9 |

HIGHEST RANKING EMPLOYEE

| | |
|---------------------------------------|----------------------------------|
| Name | Susanna West |
| Position | Site Director / VP Manufacturing |
| Phone number | (905) 819-3000 |
| Email | |
| Mailing address (if different) | - |

PLAN SUMMARY

| Substance name | Substance Name | CAS No. |
|--|---|----------------|
| | Benzoyl peroxide | 94-36-0 |
| Statement of Intent & Objectives | GSK intends to reduce the use of benzoyl peroxide (BPO). The objective is to reduce the use of BPO through process modification, spill and leak prevention, and improved operating practices. | |
| Toxic Substance Accounting Records (methods used to track & quantify, quantifications, input output balance, etc.) | Refer to report entitled, "2013 Toxics Reduction Plan for GlaxoSmithKline" | |
| Toxic Substance Reduction Plan (cost estimates, options to reduce, reduction estimates, technical & economic feasibility analyses, etc.) | Refer to report entitled, "2013 Toxics Reduction Plan for GlaxoSmithKline" | |
| Implementation Plan of Options | | |
| Implementation Category | Equipment or process modification | |
| Implementation Option | Removal of processing step to eliminate the use of a holding tank. | |
| Estimated Reduction | 0.16 tonnes/year (0.9%) used | |
| Dates for achieving reduction | <ul style="list-style-type: none"> • One year | |
| Implementation Category | Spill or leak prevention | |
| Implementation Option | Reduction in unit size to reduce amount released during spill. | |
| Estimated Reduction | 0.02 tonnes/year (0.1%) used | |
| Dates for achieving reduction | <ul style="list-style-type: none"> • Two years | |
| Implementation Category | Improved operating practices | |
| Implementation Option | Operator training to improve the amount captured during bulk tank scraping. | |
| Estimated Reduction | 0.11 tonnes/year (0.6%) used | |
| Dates for achieving reduction | <ul style="list-style-type: none"> • One year | |