

# Saponins of *Quillaja saponaria* (097095) Fact Sheet

## Summary

Saponins of *Quillaja saponaria* is a new active ingredient that is extracted from the wood and bark of the soapbark tree also known as *Quillaja saponaria*. The end-use product Quillaja Extract is intended to inhibit the growth of pathogenic fungi and nematodes in ornamental plants, food crops and turfgrasses. Use of this extract as a pesticide active ingredient is not expected to harm humans, non-target organisms, or the environment.

### I. Description of the Active Ingredient

The active ingredient saponins of *Quillaja saponaria* is a dark brown liquid with a sweet, pungent odor. The saponins are extracted from the wood and bark of the soapbark tree (*Quillaja saponaria*). The product Quillaja Extract contains 8.60% by weight of the active ingredient.

### II. Use Sites, Target Pests, and Application Methods

- **Use Sites:** Vineyards, orchards, field crops, ornamentals
- **Target Pests:** Nematodes, pathogenic fungi
- **Application Methods:** Liquid formulation is applied using ground equipment with a band sprayer, soil fertilizer shanks, drip irrigation, or aboveground sprinkler systems.

### III. Assessing Risks to Human Health

No harmful effects are likely to occur to workers or the public from use of Quillaja Extract when it is used to control nematodes and pathogenic fungi in vineyards, orchards, field crops and ornamentals. Laboratory studies on rats and pigs indicate that the active ingredient is not toxic or infective following lung, oral, or skin exposure. Quillaja saponins are widely used in food items such as flavoring agent, food additives and soft drinks. There are no reports of negative effects following regular human exposure and consumption of Quillaja extracts.

### IV. Regulatory information

Desert King Chile, Ltd. submitted an application for the registration of the end use product Quillaja Extract containing the new active ingredient saponins of *Quillaja saponaria*. A notice of receipt of an application for registration of Quillaja extract, containing as an, was published in the Federal Register (FR) on April 5, 2006 (71 FR 17095). The applicant also filled a petition (PP 5F6982) proposing to establish an exemption from the requirement of

a tolerance for residues of Quillaja Extract in or on all food commodities. A notice of filing was published in the FR on March 15, 2006 (71 FR 13388). EPA approved a tolerance exemption the use of saponins of *Quillaja saponaria* on food commodities on August 1, 2007 (72 FR 41931), and granted a conditional registration for the product Quillaja extract on August 07, 2007

## **V. Registrant Information**

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## **VI. Additional Contact Information**

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