



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 12, 2017

Jacob Moore
Henry Manufacturing Company
c/o Technology Sciences Group, Inc.
712 Fifth Street, Suite A
Davis, CA 95616

Subject: Pesticide Registration Improvement Act (PRIA) Formulation and Labeling Amendment (Adding a New Source of Active Ingredient) and Label Revisions (Adding Advisory Language to Use with Adjuvants and Adding Warranty Statements).
Product Name: Potum
EPA Registration Number: 88573-1
Application Date: October 17, 2016
OPP Decision Number: 523036

Dear Mr. Moore:

The Confidential Statement of Formula (CSF) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

Please note that the record for this product currently contains the following acceptable CSF:

- Basic CSF dated 10/17/2016

Any CSFs other than those listed above are superseded/no longer valid.

In addition, the amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this

product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 § CFR 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Gina Burnett of my team by phone at (703) 605-0513 or via email at burnett.gina@epa.gov.

Sincerely,

A handwritten signature in blue ink, reading "Andrew C. Bryceland".

Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

POTUM

ACCEPTED

05/12/2017

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 88573-1

ACTIVE INGREDIENT:

Potassium Bicarbonate 99.9%

OTHER INGREDIENTS: 0.1%**TOTAL:** 100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If swallowed	<ul style="list-style-type: none">• Call poison control center or doctor immediately for treatment advice.• Have person drink several glasses of water.• Do not induce vomiting.• Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	

See (back) (side) panel for additional precautionary statements and directions for use.

EPA Reg. No.: 88573-1**Net Weight:** 55 lbs (25 kg)**EPA Establishment No.:** XXXXX-XX-XX**(Batch No. / Lot No.:** XXX)**Manufactured for:**

Henry Manufacturing Limited
PO Box 12015 Ahuriri, Napier, New Zealand
+64 27 2941490
info@henrymanufacturing.co.nz

Distributed by:

(U.S. name and address –to be determined)

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals - CAUTION. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE): Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Follow the manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations: Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards: For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hour.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: coveralls, waterproof gloves, shoes plus socks.

Do not apply this product through any type of irrigation system.

Product Information: POTUM is a broad spectrum contact fungicide for the control of various fungal and bacterial diseases on agricultural crops. POTUM works by rapidly changing the pH

on leaf surface, creating a strong osmotic imbalance between microscopic organisms and the surrounding solution on the plant surfaces. This severely disrupts spores and fungi cell walls.

POTUM requires the addition of a suitable adjuvant to be effective. This product can also be added to another potassium bicarbonate product that contains a suitable adjuvant to raise the level of total potassium bicarbonate. At no stage should the total level of potassium bicarbonate exceed 5lbs per 100 gallons of water for grapes or 4lbs per 100 gallons of water for other crops.

Integrated Pest Management: Integrate POTUM into an overall pest management strategy whenever fungicide use is necessary. Follow practices known to reduce disease development. Consult local agricultural authorities for specific IPM strategies developed for your crop(s) and location.

Pre-Harvest Interval: POTUM can be applied up to and including the day of harvest, except as noted. See Application Rates table for crop-specific application frequency information.

Mixing and Application Instructions: Apply POTUM with an adjuvant to provide optimal spreading.

MIXING INSTRUCTIONS

NOTICE: POTUM dissolves slowly. Take care to ensure the product is completely dissolved. Fill the spray tank three quarter with water and activate the agitators. Slurry mix POTUM in a bucket and slowly add through top of the tank. Continue to fill with water and then add the adjuvant, if used. Use spray mixture immediately. Do not allow spray mixture to stand overnight or for prolonged periods

WATER HARDNESS

Mixed in hard water (high in dissolved mineral cations), can be problematic. Where growers have known water hardness it is recommended that a small premix is made to determine mixing.

APPLICATION AND TIMING

Apply POTUM using conventional spray equipment to the point of saturation. The amount of spray solution to apply will vary depending on the type of crop. Most crops will require up to 100 gallons of spray per acre. If disease appears shorten the spray interval to 7 days until conditions are no longer suitable for disease development and/or disease is suppressed. Do not use concentrate spraying. This product can also be applied post-harvest to remaining foliage to decrease overwintering inoculum.

COMPATIBILITY

Consult your Henry Manufacturing Limited representative for more information on POTUM compatibility with pesticides, surfactants and fertilizers. Consult specific product labels for additional information or restrictions concerning tank mixing. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. It is always advisable to conduct a spray compatibility test when you plan to mix this product with another product. To determine the physical compatibility of this product with other products, use a jar test. Using a

POTUM; EPA Reg. No. 88573-1

MASTER LABEL - Label version (4) dated October 17, 2016

B680 amendment

Page 3 of 8

quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, and then flowables, and then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding products to the spray tank.

POTUM has been evaluated for phytotoxicity on a variety of crops under various normal growing conditions. However, testing all crop varieties, in all mixtures and combinations is not feasible. Prior to treating entire crop, test a small portion of the crop for sensitivity.

Application Rates:

Crops	Disease	Lbs./100 gal of water	Notes
Grapes	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 5	Apply in sufficient water at 14 day intervals from bud burst until harvest. If disease appears shorten the spray interval to 7 days until conditions are no longer suitable for disease development or disease is suppressed. Spray onto vines ensuring the bunch zone (bunches and leaf canopy) is well covered.
Asparagus	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.
Berries, including: Blackberry Blueberry Bushberry Caneberry Cranberry Currants Elderberry Gooseberry Huckleberry Loganberry Raspberry	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Apply during early bloom and repeat on a 7 to 14 day interval or as needed.
Bulb Vegetables, including: Garlic Leeks Onions Shallots	Botrytis Leaf Blight Botrytis Neck Rot <i>Botrytis squamosa</i> <i>Botrytis</i> spp.	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.

Citrus Fruits, including: Calamondin Citrus citron Citrus hybrids Grapefruit Kumquat Lemon Lime Mandarin Orange, sour and sweet Pummelo Satsuma mandarin	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.
Cucurbit Vegetables, including: Cucumbers Melons Squash Zucchini	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.
Fruiting Vegetables, including: Eggplant Okra Pepper Tomato Tomatillo	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.
Kiwifruit	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.
Leafy Vegetables, including: Broccoli Cabbage Celery Collards Lettuce Spinach	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.
Legumes, succulent and dried, including: Field beans Lentils Peas	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.

Peanuts Soybeans			
Passionfruit	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed.
Pome Fruits, including: Apple Crabapple Loquat Mayhaw Pear Pear, oriental Quince	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Apply at early and late bloom. For extended bloom periods, apply on a 7 – 14 day interval.
Root, Tuber and Corm Vegetables, including: Beets Carrots Cassava Ginger Potato Radish Sugar beets Sweet potato Yams	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.
Stone Fruits, including: Apricot Cherry, sweet and tart Nectarine Peach Plum Plumcot Prune (fresh)	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.
Tree nuts, including: Almond Beech nut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert((hazelnut) Hickory nut Macadamia nut	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7 to 14 day intervals or as needed.

Pecan Walnut, Black and English			
Strawberries	Gray Mold (<i>Botrytis cinerea</i>) Powdery Mildew	2 - 4	Begin application at or before flowering. Repeat on 7 to 14 day intervals or as needed up until harvest.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in a cool, dry place. Store in original container only. Keep container tightly closed when not in use.

Pesticide Disposal: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.


Container Disposal: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances. If outside container is contaminated, dispose of in the same manner as the bag.

NOTICE: Buyer assumes all responsibility for safety if use is not in accordance with label instructions.

IMPORTANT NOTICE: DISCLAIMER AND LIMITATIONS OF LIABILITY: This product has been researched to provide necessary data to support its use on the ornamental and agricultural plants listed on the label. However, it is understood that tests may not have been carried out on all varieties or cultivars and under all growing conditions on all plants listed on the label. Always follow the label directions. Exercise care when using this product on a given variety until familiar with the results under your growing conditions.

NO WARRANTY OR REPRESENTATION IS MADE, EXPRESS OR IMPLIED, CONCERNING THE RESULTS OBTAINED FROM THE USE OF THIS PRODUCT IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. To the extent allowable by state law the exclusive remedy of the user or Buyer, and the limit of liability of Henry Manufacturing Limited or any other Seller, for any and all losses, injuries or damages resulting from the use or handling of this product shall be the purchase price paid by the user or Buyer for the quantity of this product involved. The Buyer and all users are deemed to have accepted the terms of this Notice, which may be varied only by agreement in writing, signed by a duly authorized representative of Henry Manufacturing Limited.

OPTIONAL LABEL CLAIMS

- Biofungicide.
-  (For Organic Production) (For Use in Organic Production)
- [PLACEHOLDER - OMRI-Listed (logo)]
- No pre-harvest interval (PHI).
- Low Reentry Interval (REI).