

<<<Bag Label>>>

HEADS UP[®] PLANT PROTECTANT

Seed treatment for the suppression of rhizoctonia canker and black scurf on potatoes and rhizoctonia root rot and post-emergence damping-off, sudden death syndrome on soybeans and damping-off on soybeans and white mould on soybeans and dry beans

Soluble Powder

FUNGICIDE

Commercial

ACTIVE INGREDIENT: Saponins of *Chenopodium quinoa* 63.02%

REGISTRATION NO. 29827 PEST CONTROL PRODUCTS ACT

**READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

CAUTION

<Skull & Crossbones in Triangle>

POISON

NET CONTENTS: 1 gram to 1 KG

Heads Up Plant Protectants, Inc.
3002 Millar Ave
Saskatoon, Saskatchewan
S7K 5X9 Canada
Telephone: 1-866-368-9306

HOT LINE NUMBER

For 24-hour Medical Emergency Treatment Information
1-866-368-9306 or 1-306-542-7639

This product contains no colourant. All seed treated with this product must be conspicuously coloured at the time of treatment. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product."

First Aid

- If swallowed** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
- If on skin or clothing** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.
- If inhaled** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
- If in eyes** 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 centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

No specific toxicological information is available. Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Harmful if inhaled. Avoid breathing dust and spray mist. May irritate the skin and eyes. Avoid contact with skin, eyes and clothing. Wash hands and face after handling and before eating, using tobacco (including smoking), applying cosmetics or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Avoid contamination of feed and foodstuffs.

Treat seed in a well-ventilated area. All workers must wear a long-sleeved shirt and long pants, shoes, socks and waterproof gloves. In addition, mixers must wear protective eyewear and a dust mask. Follow manufacturer's instructions for maintaining PPE. If no such instruction for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Do not use seed treated with this product for animal feed. Do not use treated seed for food, feed or oil purposes

ENVIRONMENTAL HAZARDS: TOXIC to aquatic organisms

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

STORAGE

To prevent contamination store this product away from food or feed. Store above -12° C.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

Heads Up® is a registered trademark of Heads Up Plant Protectants, Inc.

<<<Booklet>>>

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Treat seed in a well-ventilated area. All workers must wear a long-sleeved shirt and long pants, shoes, socks and waterproof gloves. In addition, mixers must wear protective eyewear and a dust mask. Follow manufacturer's instructions for maintaining PPE. If no such instruction for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Do not use seed treated with this product for animal feed. Do not use treated seed for food, feed or oil purposes

ENVIRONMENTAL HAZARDS: TOXIC to aquatic organisms

DIRECTIONS FOR USE

GENERAL INFORMATION

This product contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. Users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour.

Heads Up Plant Protectant is a preplant seed treatment for the suppression of rhizoctonia canker and black scurf on potatoes and rhizoctonia root rot and and post-emergence damping-off, Sudden Death Syndrome on soybeans and damping-off on soybeans and white mould on soybeans and dry beans.

Heads Up Plant Protectant is made from plant sources. Apply this product as directed to seeds as part of a general disease management program.

TREAT ONLY HEALTHY VIGOUROUS SEED: Application of **Heads Up Plant Protectant** to damaged or diseased seed or seed of low quality or vigour will not improve seed performance. Always apply to healthy seed under stress-free conditions.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of excess treated seed by burial away from streams and bodies of water.

MIXING DIRECTIONS

Apply dissolved into solution with water, and thoroughly coat the surface of the seed. Do not apply in packaged powder form. Ensure that the product is thoroughly dissolved in solution and the solution agitated before application. Return any unused powder to original container.

Clean application equipment. Prepare only the amount of solution needed to be applied to treat the seed. Once in solution the product will be subject to bacterial degradation. Use the solution IMMEDIATELY AFTER COMPLETE MIXING and no longer than 4 to 6 hours after mixing. Treat only the seed that you wish to plant and ensure all treated seed are used for planting purposes.

PREPLANT SEED TREATMENT DIRECTIONS FOR USE TABLE

CROP	DISEASE	APPLICATION RATE	DIRECTIONS
Seed Potatoes (cut or whole tubers)	Suppression of rhizoctonia canker and black scurf (<i>Rhizoctonia solani</i>)	1 gram of Heads Up Plant Protectant per 1 litre of water 1 package (50 grams) of Heads Up Plant Protectant treats up to 13,200 kg (29,100 lbs.) of seed	Mix Heads Up Plant Protectant with water. Apply 1 L of solution for every 100-264 kg of potato seed. Seed must exhibit signs of germination.
Soybean Seeds	Suppression of root rot and post-emergence damping-off caused by (<i>Rhizoctonia solani</i>), white mould (<i>Sclerotinia sclerotiorum</i>) and sudden death syndrome (<i>Fusarium virguliforme</i>)	1 package (50 grams) of Heads Up Plant Protectant treats 8108 kg of seed.	Soybean and dry bean seeds must be prepared and ready for seeding. Follow the method on following page to first make a 3-litre solution of Heads Up Plant Protectant Liquid Solution Concentrate that can be further diluted with additional water or other seed treatment products.
Dry Bean Seeds	Suppression of white mould (<i>Sclerotinia sclerotiorum</i>)		Mix 37 mL of Heads Up Plant Protectant Liquid Solution Concentrate with enough additional carrier (water) or other seed treatments which will fully wet the seed in a range of 313 mL to 613 mL of total solution per 100 kg of seed.

For seed potatoes, whether fresh cut or suberized, the **Heads Up Plant Protectant** solution **must be applied to germinating seed potatoes**, as indicated by obvious sprouting activity coming from the potato eyes. This sprouting activity can be from peeking to full spout length, but before green leaves appear.

Soybean and dry bean seeds must be prepared and ready for seeding. The object is to achieve a wet shiny appearance to the seed. This will dry off or be absorbed by the seed; however, the treatment will remain in effect. Treat the seeds by dipping, spraying or dribbling the solution into a rotating auger conveyor or some other approved seed treatment device. Spray applications to seeds within an enclosed spray booth or other enclosed spray device are also acceptable providing thorough coverage is achieved.

PREPLANT SEED TREATMENT DIRECTIONS FOR USE ON SOYBEANS AND DRY BEANS

When **Heads Up Plant Protectant** is applied to soybean and dry bean seed as a preplant seed treatment, first make a slurry of 3 litres Heads Up Plant Protectant Liquid Solution

Concentrate then add the additional carriers or other seed treatments to make 313 to 613 mL of treatment solution per 100 kg of seed..

Step 1

To Make 3 Litres (3000 mL) of Heads Up Plant Protectant Liquid Solution Concentrate

1. Choose a suitable container that will hold 4 litres of water (or larger) and will allow for vigorous shaking or stirring of the solution.
2. Empty the full package (50 grams) into 1.5 Litres of water (non-chlorinated preferred).
3. Shake or stir this mixture until all the product is dissolved, usually in a few minutes.
4. Top up the container with an additional 1.5 Litres of water to make 3 Litres of Heads Up Plant Protectant liquid solution concentrate. Shake well.

37 mL of concentrate solution will treat 100 kg of seed.

Step 2

Importance of Additional Carrier Solution

This product is a non-microbial chemical solution and must be applied with enough additional carrier (water) or other seed treatments which will fully wet the seed and allow the solution to penetrate and reside in the seed coat until germination occurs. Add additional carrier to the **Heads Up Plant Protectant Liquid Solution Concentrate** to achieve the range of 313 mL to 613 mL of total solution (Heads Up + all other additional liquid carriers) per 100 kg of seed.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact customer service at Heads Up Plant Protectants Inc. at 1 (866) 368-9306 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

DISPOSAL

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