

General information

- 100% natural fertilizer made from Acti-Sol pure layer hen manure and frass
- Product description : Dried, dehydrated and granulated
- Homogeneous granules
- Contains no sewage sludge or product filling
- Available granulometry size :
 - Regular : 3mm x 6mm (degradation in 2-3 weeks)*
 - Fine size : 2,5mm (degradation ≤ 1 week)*

*The rate of degradation varies depending on the mode of application and irrigation



What is frass ?

Frass is made of biological waste from insects, including excrement, the remains of their exoskeletons and food remains. Frass is a high value-added product for agriculture and horticulture that helps reduce the amount of organic waste that would otherwise go to landfill, particularly unsold fruit and vegetables. Along with hen manure, it is another concrete example of the circular economy.

Environmental Advantages

- Hen Manure + FRASS is a sustainably sourced product, aligning with eco-responsible practices.
- Its slow-release effect reduces the risk of nutrient leaching.
- When used according to recommendations, it minimizes nutrient losses, particularly nitrogen, through leaching and volatilization.
- By meeting plant needs and adapting to environmental conditions, natural fertilizers like Hen Manure + FRASS enhance crop resilience to climate change, promote soil health, and reduce vulnerability to extreme conditions.
- Due to its increased efficiency, this fertilizer can, under certain conditions, be applied at 75-80% of the recommended nitrogen dose for pure 5-3-2 poultry manure. Small-scale field trials are recommended to validate the fertilizer's effectiveness and adjust the dosage for specific crop conditions.

GUARANTEED MINIMUM ANALYSIS

Total nitrogen (N)	4%
Available phosphoric acid (P ₂ O ₅)	2,5%
Total phosphoric acid	2.8%
Soluble potash (K ₂ O)	2.8%
Calcium (Ca)	7%
Magnesium (Mg)	0.5%
Organic matter	57%
Maximum moisture	10%
pH	±7.1
C/N	7
Average density	620kg/m ³

How it works

The complementary combination of Acti-Sol layer hen manure and frass create a synergy that stimulates microbial activity. This combination improves soil health and makes plants more resilient to environmental stresses such as increasingly frequent heatwaves, frosts and droughts. With its fast-acting and extended nitrogen release, it enhances results and supports strong, enduring growth.

Agronomic Advantages

- Hen manure + FRASS enhances nutrient release efficiency, increasing their availability to plants.
- The organic matter in each granule stimulates soil microbial activity, promoting the mineralization of organic complexes and releasing essential minerals for plant growth.
- The combination of frass and hen manure ensures nitrogen release better synchronized with plant needs at each physiological stage, thereby optimizing photosynthesis and leaf health.
- Hen Manure + FRASS helps stabilize soil pH while improving the availability of trace elements.
- Trials conducted on cranberry crops showed an increase in fruit size, as well as improved anthocyanin and sugar (Brix) levels compared to the original 5-3-2 formula.[1]

[1] Passicouset, J., Chervier-Legourd, C., Gilbert, D., Labarre, D., Bouchard, K., Dionne, C., & Lange, S. F. (2024, September 26). Optimizing organic cranberry nitrogen nutrition through the formulation of biofertilizer with fast mineralization rates. Paper presented at the International Vaccinium Symposium.

Uses

Field Crops

- Spread evenly and incorporate into the top 5-10cm of soil during seedbed or planting bed preparation.
- Apply post-emergence to an established crop near the root zone, ideally incorporating it into the soil or leaving it on the surface.

Container Crops

- Incorporation into growing medium for transplants, flowers, and vegetables : Add 5 to 10g/L of substrate.
- For seedlings, it is recommended to use Ultrafine Acti-Sol Manure, which is better suited for this stage of production.

Amounts of nutrients added per area

Application rate Hen manure + FRASS (kg/ha)	N (kg/ha)	P ₂ O ₅ (kg/ha)	K ₂ O (kg/ha)
125	5	3.1	3.5
250	10	6.3	7
1 250	50	31	35
2 500	100	63	70

1 hectare = 10 000 m² or 2.471 acres

General Application Tips

For maximum effectiveness, apply the fertilizer to well-aerated and non-compacted soils. If possible, apply before rainfall or follow with irrigation to promote nutrient incorporation into the soil.

Pre-Harvest Interval

Our manure can be applied without a pre-harvest interval as it has been mechanically heated and treated to meet Canadian Food Inspection Agency (CFIA) regulations.

Storage

Protect from rain by storing in a garage, warehouse or shelter. Store in a cool, dry place. It is frost-resistant.

Recommended Conditioning for Optimal Results

Ideally, prepare the mixture 48 to 72 hours in advance. Mix the fertilizer evenly into the potting soil, then ensure that the substrate is moist, well-aerated, and maintained at a temperature above 20°C for the entire conditioning period. Stir the mixture once per day to ensure good aeration and consistent moisture levels.

Application Rates by Crop

Visit the Producer Zone on our website for more information on the needs of different crops right [here](#).

The rates, methods, and timing of Hen Manure + FRASS applications should be adjusted according to several factors: soil type (pH, drainage, nutrient content), crop requirements, previous crop inputs (compost, green manure, manure), and provincial regulations.

It is recommended to perform a soil analysis every 3 to 5 years to maintain nutrient balance and avoid saturation. Consult an agronomist for tailored recommendations and to optimally integrate Hen Manure + FRASS while preserving soil health.

Available formats and packaging

- 25kg, 500kg and 1000kg
- 25kg bags are 100% recyclable
- The 500kg and 1000kg bags are reusable on your company

Warnings

- May contain: peanuts, tree nuts, sesame, milk, eggs, fish, shellfish, mollusks, soy, wheat, triticale, sulfites, and mustard. Adverse effects may occur in sensitive individuals. In case of an allergic reaction, consult a physician.
- Wash hands after use. Do not ingest.
- This product is not intended for spreading on ruminant pastures or for animal feed (ruminants). Fines or other penalties may be imposed under the Animal Health Act.

Did You Know ?

Integrating soil and/or foliar applications of **Acadie Seaweed and Hydrolyzed Fish** into your agricultural practices offers numerous benefits. These products provide essential minerals, promote optimal root development, strengthen natural plant defense mechanisms, and help improve crop quality, taste, and value. Contact your representative for more information!



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