

March 2021

# ORGANIC INPUTS GUIDE

## PRE-PURCHASE CHECKLIST

There are many considerations when using approved organic inputs, including:

- Check all documentation prior to use.
- Review OMRI and WSDA certificates when possible and seek approval from your certifier via your OSP and Approved Input List prior to use.
- Products must be used as registered.
- Just because product is OMRI or WSDA approved doesn't mean you can use it however you want. You must follow all restrictions.
- Advance approval can be sought and granted on products that don't have an OMRI or WSDA certificate but get approval from your certifier in advance.
- Save all documentation!

*This list is not comprehensive and is meant only as an introduction to navigating the use of organic inputs. Always download the latest version.*

## STARTERS, SEED TREATMENTS & INOCULANTS

**1R Seed Treatment** (Soil Biotics). This common seed treatment is used by many seed companies to treat non-GMO and/or organic seeds. It's a humic acid seed treatment derived from leonhardite and is compatible with many other seed treatments. It can be used on a variety of seeds (including corn). OMRI listed.

**Dakota REV** (Dakota). REV is an all-natural plant-based humus that can be applied in-furrow as a seed treatment or directly onto the plant. REV is also an organic growth stimulant that serves as a carrier for micronutrients. REV helps to boost plant health and promotes root growth and may also enhance seed germination. REV can also help alleviate soil salinity problems, serve as an adjuvant for tank mix, and help stabilize your soil to make your fertility more available throughout the growing season. OMRI listed.

**L-CBF Terrafed** (Quality Liquid Feed). L-CBF (Liquid Carbon-Based Fertilizer) is comprised of sugar cane molasses. It contains natural nitrogen, potassium, and some micronutrients. Product benefits can include improved nutrient availability, enhanced root development, and enhanced biological function. It can be used in-furrow, broadcast, banded 2x2, or via foliar application. OMRI listed.

**Condor Trichoderma** (Hello Nature). Condor is a micronized powder consisting of *Trichoderma atroviride* (Italpollina strain). The selected strain differs from others for its great adaptability to the environment and especially for its great reproducibility. This means a quicker action due to its ability to live in soils occupying the rhizosphere and colonizing the roots. It can be used as a microbial inoculant of seed. OMRI listed.

**Trainer** (Hello Nature). Trainer is a liquid organic fertilizer based on 100% vegetal amino acids and peptides. The combined presence of organic nitrogen and vegetal amino acids is helpful for plant development and aids in overcoming climatic stress situations. This can be used in furrow as a starter fertilizer. OMRI listed.

**TerraMax Green Liquid Inoculant** for peas / lentils / hairy vetch. This inoculant consists of *Rhizobium legumin Sarum* spp. and *Azospirillum Brasiliense*. Its specifically formatted for peas, lentils, and hairy vetch. The bacteria penetrate the root, resulting in the formation of root nodules that fix nitrogen from the air and make it readily available to the plant. As with all inputs, this needs pre-approval. It is not officially OMRI listed but has been accepted by certifiers in the past. Verify in advance.

**MicroNoc** (SONO Ag) This dry seed treatment has multiple strains of rhizobium, bacillus, and azotobacterial with a combination of necessary microorganisms in a humate powder. Making the proper amount of nutrients available to the seed at the time of germination allows for maximum growth and crop production. It is billed as "The inoculant for all planting seeds." OMRI listed.

## **DEFENSIVES – FUNGICIDES**

**Regalia RX** (Marrone Bio Innovations) Bio-Fungicide: Group p5 – bio fungicide. Derived from a plant extract for row crops and small grains, Regalia helps protect treated portions by strengthening the plant cell wall and improves plant health. Apply prior to disease infestation to protect the growing leaf tissue. It can be used with multiple application methods to control or suppress certain soil-borne or foliar diseases and promote healthy plant growth. See label for specifics on diseases controlled and use rates. OMRI listed.

**Procidic** (Greenspire Global Inc) Bactericide + Fungicide. Works systemically, no Re-Entry Interval required (0-hr REI), works on contact and residual action. See label for specific information on diseases controlled and use rates. WSDA approved.

**Jet Ag** (Jet Harvest Solutions) Fungicide + Bactericide + Algacide. Use to prevent, suppress, or eliminate fungi, bacteria, and algae. If disease is present, it's likely multiple applications will be necessary. This has a low cost / ap. It essentially sanitizes the field like hydrogen peroxide. OMRI listed.

**NuCop HB** (Albaugh LLC). Copper Hydroxide is used as a fungicide/bactericide. In dissolved form, copper is a metal that penetrates plant tissue and helps control fungal diseases. It works to kill pathogen cells by denaturing enzymes and other critical proteins. When sprayed on plant leaves it will dry and then release copper ions in small amounts every time the leaf is wetted. OMRI listed.

## DEFENSIVES – INSECTIDES

**PyGanic** (Group 3A - Organic Insecticide). On contact knockdown of insects. Botanically derived. No Pre-Harvest Interval (PHI). Controls broad-spectrum of insects (over 100 insects). Multiple applications might be necessary due to timing during lifecycle of insects. Available in 2 concentrations.

**Venerate XC** (Marrone Bio Innovations). Venerate is a bioinsecticide that can be used on row crops (including corn and soybeans), oil seed crops, and cereal grains. It features multiple modes of action and is effective against a wide variety of chewing and sucking insects and mites yet is easy on beneficials. The unique modes of action will complement and improve integrated pest management and insect resistance management programs. Please check label for specific pests. OMRI listed.

**PermaGuard Crawling Insect Control** (PermaGuard) Diatomaceous Earth. Good for controlling insects within grain bins. This product is a ready-to-use insecticide and typically takes 48 hours to work.

**Prowl 3** (Bio Huma Netics). Insecticide + Miticide + Fungicide. Works on contact with some local systemic activity. It has limited residual control and repeat treatments could be necessary. This has a 0 Pre-Harvest Interval (PHI). It controls a variety of pests and diseases. See label for specifics. OMRI listed.

## DEFENSIVES – HERBICIDE

**Suppress EC** (Westbridge Agricultural Products). Suppress is a broad-spectrum contact herbicide for post-emergent, non-selective weed control for use in and around all agricultural food and non-food crops. The proprietary formulation is a non-volatile, emulsifiable concentrate that provides rapid, effective control for various weeds. OMRI listed. Please read the OMRI certificate restrictions and, as always, get approval by your certifier prior to use.

**Weed Slayer** (Agro Research International LLC). Controls grass and weeds naturally. This is also a non-selective weed controller. It is a 2-part mixture that consists of an essential oil and a bio surfactant. WSDA approved. Please read the certificate restrictions and, as always, get approval by your certifier prior to use.

## NUTRITIONALS

**FertilGold** Foliars +Fulvic Acid (Bio Huma Netics). Various micronutrients are available including Mn, Ca, Fe, Mg, etc., that are combined with fulvic acid. For foliar application. Please verify restrictions prior to use and, as always, get approval by your certifier prior to use.

**Solubor:** (20 Mule Team): 20.5% Sodium Borate. A low-cost source of boron. In a dissolvable powder form. Please verify restrictions prior to use and, as always, get approval by your certifier prior to use.

## OTHERS

**BioLink Acidifier** (Westbridge Agricultural Products). BioLink is a buffering agent specially designed for lowering the pH of water. It contains high concentrations of citric acid. The optimum pH of water in spray situations is between 5.3-6.0, and citric acid is ideal as an acidifier for reducing the pH. WSDA approved.

**Equipment and Tank Cleaner** (Rosen's Inc). This cleaner is designed for tanks, lines, and nozzles to remove residues left from pesticides, herbicides, and fertilizers. It is not an OMRI-listed product, but it's rare to find a cleaner that is OMRI listed. Cleaners are necessary and getting one approved in advance by your certifier is important.

## FERTILITY

Type	Company / Territory	Contact Information
Poultry Manure (Pelleted)	<a href="#">Crop Fertility Services</a> – CFS MN, ND/SD, IA, IL, WI	Headquarters 320-286-2470
	<a href="#">Herbruck's Poultry Ranch, Inc.</a> Saranac, MI	Brian Geerlings 616-642-9421
	<a href="#">Dan's All-Star Feeds, LLC</a> Earlville, IA	Dan Rave 563-213-0802 dansallstarfeeds@windstream.net
Poultry Manure (Raw)	<a href="#">Advantage Lime</a> Turkey manure and OG soil amendments Kenyon, MN	Mike Kasper 507-456-3134
	<a href="#">Farm Nutrients</a> Iowa and Colorado	Doug Schwarzkopf 712-298-1129
Manure Spreading	<a href="#">Warbler Farms</a> Northern Iowa	Marcus Spotts 641-425-4787