INM Products

Excellence in Plant Nutrition

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ABOUT INM

INM is an Australian agricultural crop nutrition company that develops and produces an extensive range of unique products and provides services that are specially formulated to increase crop profitability.

The products are based on either offering totally **new formulations** and concepts, or to **improve** on existing ones.

With trace elements, calcium and magnesium, organic acid-based chelating and complexing agents are used in the manufacturing process in order to facilitate prompt absorption and translocation in plant tissue, resulting in quick and effective responses. On one hand, different such agents are used in order to be able to achieve most efficient results for different soil and water conditions. At INM, we have picked the right agents for the right condition. On the other hand, chelating and complexing agents are not universal in their abilities to guarantee high availabilities of all minerals. They are selective and some favour some minerals against others. At INM, we have picked the right agent for the right mineral.

The services offer a unique state-of-the-art diagnostic technique (NAR) that deals with crop nutrition as a tool that can be naturally and safely geared towards specific crop quality and yield targets with the objective of meeting specific market demands and premium quality and production issues such as colour, shelf-life, biennial cropping, low yields, sugar content, size, etc…

The INM products do not claim to replace the traditional use of fertilizers or other farm chemicals; they are meant to compliment them at times of stress and special demand, pushing the crop closer to its profitability target.

INM products in their own right can help growers achieve better quality and yields. When used in conjunction with INM's diagnostics (NAR), INM can offer specific and easy-to-follow programs with a targeted approach that is specifically designed to address individual needs from an economic perspective.

The information here in is general product information and does not constitute any foundation of a comprehensive field guide as such. For more information about the NAR and INM' diagnostics, please call INM or its nearest distributor.

CAL-MAX

For control and treatment of Bitter Pitt, Leaf Tip Burn, Blossom End Rot, Soft Fruit, Poor Skin Quality, Low Shelf Life and other Calcium deficiency-related issues. Best applied during Calcium stress periods throughout the growing season. For skin and shelf-life improvement, it is best applied late in the season and up till 7 days from harvest. CAL-MAX is compatible with Phosphorus products (after dilution).

Composition: 20% Calcium (Ca)
Application: Foliar
Description: Soluble powder
Packaging: 5 kg units (in 10 Lt pails) or 10 kg units (in 20 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 500-800 gr/Ha/application

K-MAX

This zero-N product is designed to enhance ripening by boosting the level of Potassium resulting in higher brix, higher sugar levels (Baumé) and better colour development. Phosphorus is included for its synergistic effect.

Composition: N (0%), P (17%), K (36%). Fulvic Acids (0.5%)
Application: Foliar
Description: Soluble powder
Packaging: 10 kg units (in 10 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 2-3 kg/Ha/application

K-PLUS

This is a liquid Potassium and Phosphorus that is designed for broadacre and field crops in situations where water qualities do not allow for the usage of powder products. This is not a stock item and available only on request.

Composition: 36% w/v Potassium (K), 10% w/v Phosphorus (P)
Application: Foliar (on broadacre and field crops)
Description: Liquid
Packaging: 20 Lt cubes
Shipper: Individual units
Approx. Application Rates: 2-3 L/Ha/application

Liquid K-MAX

This is a liquid equivalent of K-MAX. This is not a stock item and available only on request. This product is recommended when water qualities do not allow for the usage of powder products.

Composition: 25% w/v Potassium (K), 8% w/v Phosphorus (P)
Application: Foliar
Description: Liquid
Packaging: 20 Lt cubes
Shipper: Individual units
Approx. Application Rates: 2-3 L/Ha/application

MAG-MAX

A very high analysis foliar Magnesium product. It treats and controls Magnesium deficiencies. Magnesium deficiencies do not normally appear early in the season unless soils are very low in Magnesium. When the older leaves start showing the deficiency symptoms, it means that the plants are moving their Magnesium content to younger leaves. Apart from tissue/sap testing, this is a good visual indicator for timing of MAG-MAX applications.

Composition: 15% Magnesium (Mg)
Application: Foliar
Description: Soluble powder
Packaging: 5 kg units (in 10 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 500-800 gr/application

P-MAX

P-MAX is primarily a foliar Phosphorus product, but as Phosphorus stress is almost always associated with Nitrogen and Potassium stresses, they have been included in smaller ratios. P-MAX also contains low amounts of Trace Elements. It is ideal for use straight after transplanting, after cold snaps, and in early spring.

Composition: N (10.5%), P (25.8%), K (8.4%), Fulvic Acids (0.5%), plus TE
Application: Foliar
Description: Soluble powder
Packaging: 10 kg units (in 10 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 2-3 kg/Ha/application

FOLIAR TRACE ELEMENTS: Eez-Range (Alkaline)

INM is unique in having 2 ranges of foliar Trace Elements product; one for ALKALINE conditions, and one for ACIDIC conditions.

The Eez-Range is for crops grown on Alkaline Soils and/or applied with alkaline waters. It is ideal for the Riverina, Sunraysia, Riverland and other alkaline regions.

BOR-Eez

Composition: 17% Boron (B)
Application: Foliar
Description: Soluble powder
Packaging: 1 kg plastic jar units (in cartons of 6X1 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 200-400 gr/Ha/application

COP-Eez

Composition: 17% Copper (Cu)
Application: Foliar
Description: Soluble powder
Packaging: 2 kg plastic jar units (in cartons of 6X2 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 200-400 gr/Ha/application

IMZ-Eez

IMZ-Eez is designed to be used to control Lime-Induced Chlorosis. Alkaline soils with Free Lime tend to lock up Iron, Manganese, and Zinc. IMZ-Eez contains Iron, Manganese and Zinc in ratios similar to those found in most commercial crops.

Composition: 10% Iron (Fe), 10% Manganese (Mn), 7% Zinc (Zn)
Application: Foliar
Description: Soluble powder
Packaging: 5 kg and 10 kg units (in 10 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 400-600 gr/Ha/application

IRON-Eez

Composition: 25% Iron (Fe)
Application: Foliar
Description: Soluble powder
Packaging: 2 kg plastic jar units (in cartons of 6X2 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 400-600 gr/Ha/application

MANG-Eez

Composition: 25% Manganese (Mn)
Application: Foliar
Description: Soluble powder
Packaging: 2 kg plastic jar units (in cartons of 6X2 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 400-600 gr/Ha/application

MoB-Eez

Deficiencies of Molybdenum and Boron are quite common throughout Australia. MoB-Eez is the only product on the market that is comprised of straight Molybdenum and Boron.

Composition: 6% Molybdenum (Mo), 12% Boron (B)
Application: Foliar
Description: Soluble powder
Packaging: 1 kg plastic jar units (in cartons of 6X1 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 300-400 gr/Ha/application

ZINC-Eez

Composition: 25% Zinc (Zn)
Application: Foliar
Description: Soluble powder
Packaging: 2 kg plastic jar units (in cartons of 6X2 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 400-600 gr/Ha/application

FOLIAR TRACE ELEMENTS: micro-Range

INM is unique in having 2 ranges of foliar Trace Elements product; one for ALKALINE conditions, and one for ACIDIC conditions.

The micro-Range of foliar trace elements is designed for crops grown on Acid Soils and/or applied using neutral to acid waters. It is ideal for the Eastern Seaboard and Tasmania and South West WA.

micro-BOR

Composition: 20% Boron (B)
Application: Foliar
Description: Soluble powder
Packaging: 1 kg plastic jar units (in cartons of 6X1 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 200-400 gr/Ha/application

micro-COP

Composition: 20% Copper (Cu)
Application: Foliar
Description: Soluble powder
Packaging: 2 kg plastic jar units (in cartons of 6X2 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 200-400 gr/Ha/application

micro-IRON

Composition: 28% Iron (Fe)
Application: Foliar
Description: Soluble powder
Packaging: 2 kg plastic jar units (in cartons of 6X2 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 400-600 gr/Ha/application

micro-MANG

Composition: 30% Manganese (Mn)
Application: Foliar
Description: Soluble powder
Packaging: 2 kg plastic jar units (in cartons of 6X2 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 400-600 gr/Ha/application

micro-MOLY

Composition: 12% Molybdenum (Mo)
Application: Foliar
Description: Soluble powder
Packaging: 2 kg plastic jar units (in cartons of 6X2 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 100-200 gr/Ha/application

micro-TE

micro-TE is a comprehensive Trace Elements blend containing all Trace Elements in ratios similar to that found in most commercial crops. It is designed to give a general boost in all Trace Elements. It is ideal for use regularly on crops under constant cropping such as strawberries, greenhouse crops and cut flowers.

Composition: 9% Iron (Fe), 9% Manganese (Mn), 5% Zinc (Zn), 2% Boron (B), 2% Copper (Cu), 1% Molybdenum (Mo)
Application: Foliar
Description: Soluble powder
Packaging: 5 kg units (in 10 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 300-500 gr/Ha/application

micro-ZB PLUS

micro-ZB PLUS contains Zinc, Boron and Molybdenum. It was originally designed to suit the needs of certain pockets in South East Qld. However, the deficiencies of Zinc, Boron and Molybdenum are quite common throughout the entire Australian Eastern Seaboard as well as other areas.

Composition: 15% Zinc (Zn), 10% Boron (B), 1% Molybdenum (Mo)
Application: Foliar
Description: Soluble powder
Packaging: 5 kg units (in 10 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 300-500 gr/Ha/application

micro-ZINC

Composition: 30% Zinc (Zn)
Application: Foliar
Description: Soluble powder
Packaging: 2 kg plastic jar units (in cartons of 6X2 kg)
Shipper Unit: 1 Carton
Approx. Application Rates: 400-600 gr/Ha/application

micro-ZM PLUS

micro-ZM PLUS contains Zinc, Manganese, Boron and Molybdenum. It was originally designed to complement micro-ZB PLUS and/or to replace it in situations where Manganese deficiency is also a problem. The deficiencies of Manganese, Zinc, Boron and Molybdenum are quite common throughout the entire Australian Eastern Seaboard as well as other areas.

Composition: 12% Zinc (Zn), 10% Manganese (Mn), 5% Boron (B), 1% Molybdenum (Mo)
Application: Foliar
Description: Soluble powder
Packaging: 10 kg units (in 10 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 300-500 gr/Ha/application

FERTIGATION PRODUCTS: FERT-Range

The FERT-Range is designed for fertigation only and the FERT-Range products are **not suitable for foliar application**. They are either straight single minerals or blends that can be tailored for specific needs. They are meant to compliment soil and foliar applications at times of stress and/or when such applications are not alone enough or cannot be done.

FERT-CAL

FERT-CAL is a very high analysis fertigation Calcium product. It is a straight Calcium product and does not contain any other essential element and thus its application will only favour Calcium balance. It is ideal for situations where foliar Calcium applications are not enough and/or when they cannot be done due to weather or other conditions.

Composition: 30% Calcium (Ca)
Application: Fertigation
Description: Soluble powder
Packaging: 10 kg unit (in 10 Lt pails) or 20 kg (in 20 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 1-2 kg/Ha/application

FERT-CALMAG

FERT-CALMAG is a generic name for any FERT-Calcium/Magnesium blend. The ratios of Calcium to Magnesium can be tailored to individual needs. The specifications given below are just an example. FERT-CALMAG is not a shelf product, and minimal purchase requirements apply.

Composition: 15% Calcium (Ca), 7.5% Magnesium (Mg)
Application: Fertigation
Description: Soluble powder
Packaging: 10 kg unit (in 20 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 1-2 kg/Ha/application

FERT-TE

FERT-TE is a generic name of any FERT-Trace Elements blend. The specifications given below are for the generic stock item that is used on neutral to acid soils. Custom blends can be done depending on soil conditions and crop needs, but minimal purchase requirements apply.

Composition: 10% Manganese (Mn), 7% Iron (Fe), 7% Zinc (Zn), 2% Boron (B), 2% Copper (Cu), 0.5% Molybdenum (Mo)
Application: Fertigation
Description: Soluble powder
Packaging: 10 kg units (in 10 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 1-1.5 kg/Ha/application

FERT-TE PLUS

FERT-TE PLUS is the generic name of a stock item that is used on neutral to alkaline soils. The specifications given below are for the generic stock item. Custom blends can be done depending on soil conditions and crop needs, but minimal purchase requirements apply.

Composition: 10% Manganese (Mn), 7% Iron (Fe), 7% Zinc (Zn), 2% Boron (B), 2% Copper (Cu), 0.5% Molybdenum (Mo)
Application: Fertigation
Description: Soluble powder
Packaging: 20 kg units (in 20 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 1-1.5 kg/Ha/application

FERT-HiK

FERT-HiK, formerly known as Hi-K is a very high analysis Potassium product with zero-N and small amount of Phosphorus for synergy. It was originally developed to furnish high applications rates of K to bananas, but it is ideal for all situations in which more K and less N are needed.

Composition: 50% Potassium (K), 5% Phosphorus (P)
Application: Fertigation
Description: Soluble powder
Packaging: 25 kg units (in 20 Lt pails)
Shipper Unit: Individual units
Approx. Application Rates: 10-15kg/Ha/application

SPECIALTY PRODUCTS

INM produces a range of non-nutritional products that are designed to assist with better nutrient uptake and general health of crops and soils. INM does not make any claims or warranties about those products. They are not meant to have any pesticidal, fungicidal effect or growth regulation effects, but they are believed to assist in making such applications more efficient and keeping plants healthy and strong against pests and diseases.

FOL-OIL

Essential oils and vegetable oils are widely used for their ability to spread water (ie as surfactants). FOL-OIL forms a thin spreadable film even on small objects. It can help enhance the effects of pesticides and fungicides. DO NOT USE ON GERBERA AND TOMATO.

Composition: Essential Oils in an oil base
Application: Foliar
Description: Liquid
Packaging: 20 Lt cubes
Shipper: Individual units
Application Rate: 2-3 ml/L

K-PHOS

The attributes of Phosphorous Acid are well known and documented. K-PHOS is essentially a Phosphorous Acid product in which the acidity has been neutralized by Potassium. The reduction in acidity does not dilute effects, it only allows for more liberal use without much concern about acidity. This makes it ideal for spraying, fertigation, and even tree injection.

Composition: Potassium Phosphites, equivalent to 38.5% Phosphorous Acid (w/v)
Application: Foliar/Soil
Description: Liquid
Packaging: 20 Lt cubes
Shipper: Individual units
Approx. Application Rates: 1-2 L/Ha/application

LEACH

LEACH is a salinity leaching agent. Unlike traditional leaching agents such as gypsum (which flushes the soil with calcium and thereby replaces sodium), the active ingredient in LEACH flocculates the soil and creates micro-pores that allow the leaching of salts.

Composition: Ammonium Laureth Sulphate and Ammonium Lauryl Sulphate (20%)
Application: Soil
Description: Liquid
Packaging: 5 Lt jerry can & 20 Lt cubes
Shipper: Carton of 4X5 Lt and/or 20 Lt cubes
Approx. Application Rates: 1-2 L/Ha/application

OPAK

OPAK is a sunscreen for sun-sensitive crops such as tomato, capsicum, rockmelon, pineapples, table grapes, etc… Unlike similar products that are clay-based, the active ingredients in OPAK are white metallic oxides that have strong light and UV-reflecting qualities. Proper dilution in water before spraying is quite critical as this material is gel-like and the gel needs to be broken with a bit of water first before adding to the spray vat.

Composition: Metallic oxides
Application: Foliar
Description: Thick white suspension
Packaging: 10 Lt pails
Shipper: Individual units
Application Rate: 1 Lt/100 Lt water

POST-CUT

POST-CUT increases the shelf-life and longevity of cut flowers post-harvest. It also contains small amounts of fertilizer that allow the flower stem to continue to grow even after harvest. POST-CUT is only available on request. It is not a stock item.

Composition: N, P, K, S, plus Trace Elements Iron, Manganese, and Zinc plus antifungal agent
Application: Post Harvest dip for cut flowers
Description: Liquid
Packaging: 20 Lt cubes
Shipper: Individual units
Application Rate: 1-10 ml/Lt

SiK

SiK is a Silica product, Potassium Silicate to be exact. Silica is extremely common in nature, but its insolubility makes it highly unavailable. Potassium Silicate is dubbed liquid glass for good reasons. It is the only form of soluble Silica that furnishes the benefits of Silica immediately. Silica is not an "Essential Element"; it is a "Beneficial Element". Among other things, it helps retain Calcium and produces tougher skin and stronger stems. SiK also ideal for hydroponic crops (living under zero Silica input). SiK is fairly incompatible with most chemicals and is best applied alone.

Composition: Potassium Silicate (14.8% Silicon, 17.4% Potassium)
Application: Foliar
Description: Liquid (clear solution)
Packaging: 5 Lt jerry can & 20 Lt cubes
Shipper: Carton of 4X5 Lt and/or 20 Lt cubes
Approx. Application Rates: 100-150 ml/100 Lt

BIOLOGICAL PRODUCTS

These are not products of living micro-organisms. They are products that are derived from biological and organic processes.

ACTI-MAX

ACTI-MAX is derived from fermentation products carried in organic substrate. It can promote different plant functions depending on timing of its application. It is primarily used to promote evenness in growth and fruit size. It can also assist in pollination. Ideally, it should not be diluted more than 200 times in the spray tank.

Composition: Biological fermentation extract
Application: Foliar
Description: Clear liquid
Packaging: 5 Lt jerry can
Shippers: Cartons of 4X5 L jerry can
Approx. Application Rates: 1 Lt/Ha

ACTI-MAX PLUS

ACTI-MAX is derived from fermentation products carried in organic substrate. It can promote different plant functions depending on timing of its application. It is primarily used to promote evenness in growth and fruit size as well as promoting sizing. Ideally, it should not be diluted more than 200 times in the spray tank.

Composition: Biological fermentation extract
Application: Foliar
Description: Clear liquid
Packaging: 5 Lt jerry can
Shippers: Cartons of 4X5 L jerry can
Approx. Application Rates: 1 Lt/Ha

FULVI-K

Fulvic Acids are the Calcium-compatible fraction of Humic Acids. Normally, commercial fulvic acid products are solutions and/or suspensions of Fulvic Acids in water. INM is introducing soluble Fulvic Acid powders (80%) as a highly cost-effective way of supplying Fulvic Acids when required.

Composition: Fulvic Acids 80%
Application: Soil
Description: Soluble powder
Packaging: 5 kg units (in 10 Lt pails)
Shipper: Individual units
Approx. Application Rates: 1-2 kg/Ha/season

FUL-SOL

FUL-SOL is a liquid version of FULVI-K for growers who prefer to use liquid formulations of Fulvic Acids. FULVI-K is a more cost-effective way.

Composition: Fulvic Acids (6% w/v), Organic Acids (2% w/v)
Application: Soil
Description: Liquid
Packaging: 20 Lt cubes
Shipper: Individual units
Approx. Application Rates: 1-2 L/Ha

HUMI-K

HUMI-K is a bulk Potassium humate (Humic Acid) material that is designed for fertigation. HUMI-K is soluble, but being a byproduct of a natural deposit, it needs to be filtered before injection into fertigation systems especially under drip irrigation.

Composition: Potassium Humate 86%
Application: Soil
Description: Soluble powder
Packaging: 25 kg bags
Shipper: Min. orders 1 T
Approx. Application Rates: 1-2 kg/Ha/application

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INM products are available at all major resellers nationwide

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