CROP PROGRAMS & PRODUCT GUIDE

ASN™
AG SOLUTIONS NETWORK

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DON’T BE AFRAID TO BE DIFFERENT

BE AFRAID TO BE THE SAME.

At Ag Solutions Network, we’re never satisfied with status quo.

What’s best for you, your soil, and your operation isn’t the same as everyone else. Ag Solutions Network is committed to leaving the land better, not simply maintaining it. From ideas and tough conversations to unique crop nutrition products that benefit the plant and the soil, we listen, we innovate and we drive forward. Whether that’s using the most technologically advanced ingredients in our products, finding the right solutions to help increase yield and enhance quality, or doing the right thing for the land, we provide ideas, solutions, and support to meet your goals.

We’ve experienced the benefits of implementing soil health principles first hand. We strive to make a greater impact in agriculture and our communities by creating healthier soils, plants and animals. Helping growers enjoy the benefits of regenerating land and improving nutrient management as part of an entire crop production system is our ultimate objective.

AG SOLUTIONS NETWORK IS COMMITTED TO:

- Leaving the land better than we found it, not simply maintaining it.
- Being hands on, digging in, and improving soil health.
- Continuously seeking and vetting new ideas and research, then sharing what we’ve learned to help others.
- Working with growers to set and achieve their goals.
- Providing the ideas, solutions, and team to support you.
- Earning your confidence and trust.

BECAUSE WE BELIEVE IN DOING THE RIGHT THING — *ALWAYS*.

Monte Bottens
Founder & CEO, Ag Solutions Network

DEALER → LEADER

MEET ONE OF OUR MEMBERS

ASN DEALERS ARE:

- Self-starters
- Thought-leaders
- Solution-seekers
- Adaptable

Our dealers ask the hard questions to make sure their growers not only meet this year's goals, but build a path to their legacy. When it comes to working with any partner, you deserve a strong support system, smart solutions and someone to ask the hard questions right alongside you. ASN isn't here to be the same as everyone else. We're here to challenge you — and your grower — to reach the best outcomes.

As an ASN Dealer, you have access to one-on-one support from our sales team, educational resources through the AgEmerge Podcast and events, and customizable marketing assets — everything you need to grow your business. We will work with you to customize a solution for your growers' specific needs.

Brad shares more about helping farmers think and farm differently.

"We've been in the biological and nutritional business now for four years, and it is tough, even within the industry, to find people, like those at ASN, that are willing to push the envelope and push the status quo, much like ourselves.

We try to challenge the grower and the farmer to think outside the box and completely differently. There's a whole loop, a whole system there, and I think it challenges me to keep my eyes open, you know, to what we do and how we do things and what impact it has downstream."

A SYSTEM, NOT A PRODUCT

INTEGRATING POWER2GRO INTO YOUR OPERATION

POWER2GRO™
CROP PRODUCTION SYSTEM

We both know that crop solutions are not the same for every region and every field; that's why the **Power2Gro system** is a customizable solution applicable all over the country.

The **Power2Gro system** considers each grower's soil as it is now and incorporates tactics to maximize nutrient uptake and prioritize soil health. The **Power2Gro products** are designed to help address the nutrient cycling disruptions that accompany things like tillage practice changes. This allows growers to eliminate tillage passes without experiencing the yield drag. Building soil health takes time and requires adaptations throughout the entire operating system in order to be successful.

How does this work? We Work Together.

- Customizable product solutions
- Nutrient management
- No-till, strip-till, or minimal till leadership
- Water and irrigation recommendations
- Cover crop selection advice
- Equipment guidance
- Crop rotation or intercropping ideas
- Livestock integration

Why POWER2GRO? It's the Soil Health Bonus.

We know loss of top soil, erosion, and poor water infiltration are REAL problems. We also know those problems have REAL solutions; that's why the **Power2Gro system** offers a lineup of products designed to optimize plant health, from the soil up.

We're here to customize a solution for your grower's specific crop needs. Our products are manufactured with the highest quality ingredients and provide the right nutrients for outstanding performance for the plant and the soil, no matter what you grow.

Instead of just sustaining, let's do better, farm better, be better — **TOGETHER**.

SOIL HEALTH PRINCIPLES & BENEFITS

1

MINIMIZE SOIL DISTURBANCE

- Reduce organic matter degradation
- Save fuel, labor and equipment costs
- Promote diverse microbiological communities
- Reduce the potential for soil erosion

2

KEEP THE SURFACE COVERED

- Minimize evaporation losses
- Regulate surface temperature
- Reduce exposure to wind and water erosion
- Suppress weeds

3

INCREASE PLANT DIVERSITY

- Increase diversity of microbial communities
- Reduce disease environment
- Reduce insect pressure
- Reduce need for fertilizer inputs

4

MAINTAIN A LIVING ROOT

- Continually feed the diverse microbial communities
- Capture and sequester carbon whenever possible
- Create more channels for water infiltration and air exchange
- Build stronger soil aggregates

5

INTEGRATE LIVESTOCK INTO CROPPING SYSTEM

- Facilitate rapid carbon sequestration
- Graze cover crops for cost offsets
- Improve nutrient cycling and microbial communities
- Increase farm diversity and revenue per acre
- Mimic the natural design of ecosystems

ALFALFA

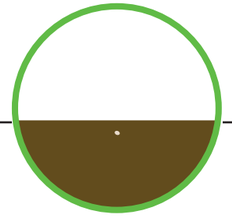
POWER2GRO PERFORMANCE

- Provides harvest flexibility.
  - Reducing plant stress delays the onset of bloom and extends the growing period.
  - Allows for flexible cutting schedules to meet either higher quality or higher tonnage goals.
- Increases leaf size, builds shoot count, and prevents hollow stem, resulting in improved quality, protein, digestibility and sugar content.
- Improves water penetration and maximizes available moisture in the soil in order to reduce required irrigation and keep timely cuttings.
- Extends stand longevity for a great final year.

ALFALFA APPLICATION TIMING

Products, applications and timing are dependent on region, soil type, weather conditions and water source. Consult your ASN Representative for a customized plan.

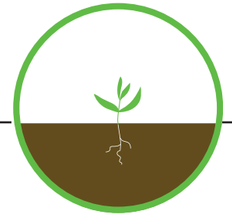
AT PLANTING



ACCELERATE™

REV UP™

EARLY VEGETATIVE FOLIAR — COOL

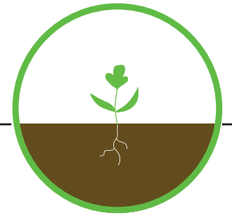


IGNITION™

DRIVE™

RESTART™

EARLY VEGETATIVE FOLIAR — HOT

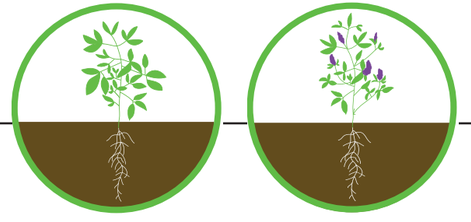


FAST TRACK™

DRIVE™

DRAFT™

IRRIGATION



PENMAX™

THROTTLE™

Apply 1 quart for every 6″ of water applied with each third irrigation until harvest.

ACCELERATE™

MICRO PACKAGE

RATE:
3 qts / acre

See page 60

REV UP™

BIO TREATMENT

RATE:
32 fl oz / acre

See page 75

IGNITION™

P MACRO PACKAGE

RATE:
3 gal / acre

See page 68

DRIVE™

MICRO PACKAGE

RATE:
2 qts / acre

See page 65

RESTART™

BIO TREATMENT

RATE:
16 fl oz / acre

See page 74

FAST TRACK™

KA MACRO PACKAGE

RATE:
1.5 - 3 gal / acre

See page 67

DRIVE™

MICRO PACKAGE

RATE:
2 qts / acre

See page 65

DRAFT™

BIO TREATMENT

RATE:
16 - 24 fl oz / acre

See page 64

PENMAX™

SOIL PENETRANT

RATE:
2 qts / acre

See page 72

THROTTLE™

BIO TREATMENT

RATE:
32 fl oz acre

See page 76

ALMONDS

POWER2GRO PERFORMANCE

- Optimizes growth pattern.
  - Eliminates long wispy branching and increases fruiting wood and buds.
  - Balances nutrient use between tree growth and nut production.
  - Lowers nitrogen needs and provides balanced nutrition throughout the tree.
- Improves water management.
  - Optimizes water efficiency.
  - Increases infiltration.
  - Avoids standing water and related disease issues.
- Larger nut size and premium potential.
- Increases yields through increased bloom and nut retention.

ALMOND APPLICATION TIMING

Products, applications and timing are dependent on variety, field location, soil type, weather conditions and water source. Consult your ASN Representative for a customized plan.

PINK BUD FOLIAR

TUNE UP B™
TURBO™
RESTART™

FERTIGATE
Between Pink Bud and Bloom

IGNITION PRO™
IGNITION PLUS™
FAST TRACK™

NEXT IRRIGATION

PENMAX™
LIQUA-JIP™

BLOOM SPRAY

TRACTION™
TOP END™
PIT STOP™
DRAFT™

FERTIGATE
After Bloom and Before Petal Drop

IGNITION PRO™
IGNITION PLUS™
FAST TRACK™
DRAFT™

PETAL DROP FOLIAR

TRACTION™
TOP END™
PIT STOP™
TUNE UP FE™
DRAFT™

FULL LEAF FOLIAR

TRACTION™
TOP END™
PIT STOP™
TUNE UP MN™
DRAFT™

TUNE UP B™
BORON PACKAGE
RATE:
1 - 2 qts / acre
See page 79

TURBO™
BIO TREATMENT
RATE:
12.8 - 16 fl oz / acre
See page 84

RESTART™
BIO TREATMENT
RATE:
16 fl oz / acre
See page 74

COMBINED RATE:
5 - 8 gal / acre

IGNITION PRO™
P MACRO PACKAGE
See page 70

IGNITION PLUS™
P MACRO PACKAGE
See page 69

FAST TRACK™
KA MACRO PACKAGE
See page 63

PENMAX™
SOIL PENETRANT
RATE:
2 qts / acre
See page 72

LIQUA-JIP™
SALINITY MANAGEMENT TREATMENT
RATE:
5 - 10 gal / acre
See page 71

TRACTION™
N MACRO PACKAGE
RATE:
2 - 5 gal / acre
See page 78

TOP END™
MICRO PACKAGE
RATE:
2 - 4 qts / acre
See page 77

PIT STOP™
MICRO PACKAGE
RATE:
1 - 3 qts / acre
See page 73

DRAFT™
BIO TREATMENT
RATE:
16 - 32 fl oz / acre
See page 64

COMBINED RATE:
5 - 8 gal / acre

IGNITION PRO™
P MACRO PACKAGE
See page 70

IGNITION PLUS™
P MACRO PACKAGE
See page 69

FAST TRACK™
KA MACRO PACKAGE
See page 67

TUNE UP FE™
IRON PACKAGE
RATE:
2 - 4 qts / acre
See page 80

TUNE UP MN™
MANGANESE PACKAGE
RATE:
1 - 4 qts / acre
See page 81

ALMOND APPLICATION TIMING

Products, applications and timing are dependent on variety, field location, soil type, weather conditions and water source. Consult your ASN Representative for a customized plan.

NUT DEVELOPMENT FOLIAR*

TRACTION™
FAST TRACK™
DRIVE™
DRAFT™

*Macro product used and rates are dependent on tissue samples and nitrogen/potassium levels. Apply either TRACTION or FAST TRACK.

FERTIGATE
After Nut Development and Before Hull Split

PENMAX™
THROTTLE™

HULL SPLIT FOLIAR

IGNITION™
FAST TRACK™
ACCELERATE™
RESTART™

POST HARVEST FOLIAR

IGNITION™
FAST TRACK™
ACCELERATE™
RESTART™

FERTIGATE
Post Harvest

FAST TRACK™
TUNE UP B™
THROTTLE™
LIQUA-JIP™

FAST TRACK™
KA MACRO PACKAGE

RATE:
1 - 2 gal / acre
See page 67

DRIVE™
MICRO PACKAGE

RATE:
2 qts / acre
See page 65

TRACTION™
N MACRO PACKAGE

RATE:
1 - 2 gal / acre
See page 78

DRAFT™
BIO TREATMENT

RATE:
16 - 24 fl oz / acre
See page 60

PENMAX™
SOIL PENETRANT

RATE:
2 qts / acre
See page 72

THROTTLE™
BIO TREATMENT

RATE:
32 fl oz / acre
See page 76

IGNITION™
P MACRO PACKAGE

RATE:
5 gal / acre
See page 68

ACCELERATE™
MICRO PACKAGE

RATE:
2 qts / acre
See page 60

FAST TRACK™
KA MACRO PACKAGE

RATE:
3 gal / acre
See page 67

RESTART™
BIO TREATMENT

RATE:
16 - 32 fl oz / acre
See page 74

FAST TRACK™
KA MACRO PACKAGE

RATE:
5 gal / acre
See page 67

THROTTLE™
BIO TREATMENT

RATE:
32 fl oz / acre
See page 76

TUNE UP B™
BORON PACKAGE

RATE:
1 - 4 qts / acre
See page 79

LIQUA-JIP™
SALINITY MANAGEMENT TREATMENT

RATE:
5 gal / acre
See page 71

CORN

POWER2GRO PERFORMANCE

- Increases yields through targeted nutrient applications by:
  - Promoting early emergence and vigor.
  - Increasing ear girth, length, and kernel depth.
  - Supporting season-long root growth.
  - Improving late season plant health.
- Aligns with soil health goals.
  - Enables no-till with no yield loss.
  - Reduces total nutrients applied.
  - Overcomes nutrient tie up of decomposing residues.
  - Incorporates cover crop use and planting green.

CORN APPLICATION TIMING

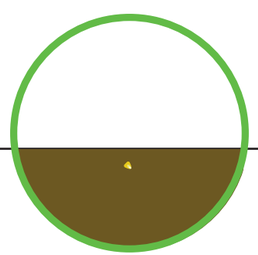
Dryland acres refers to regions with 20" or less of rainfall. Rainfed acres refers to regions with greater than 20" of rainfall.

RAINFED

DRYLAND

AT PLANTING
On-Seed

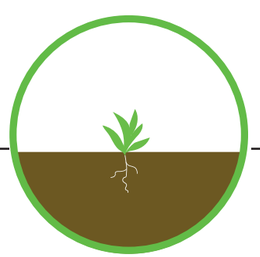
IGNITION™
ACCELERATE™
REV UP™



IGNITION™
ACCELERATE™
REV UP™

FOLIAR
V3-V5*

DRAFT™



DRAFT™

*At last pass with herbicide.

BROWN SILK
R2

TRACTION™
TOP END™
DRAFT™

RAINFED

DRYLAND

IGNITION™

P MACRO PACKAGE

RATE:
Rainfed
4 - 5 gal / acre

Dryland
1 - 3 gal / acre

See page 68

ACCELERATE™

MICRO PACKAGE

RATE:
Rainfed
2 qts / acre

Dryland
2 qts / acre

See page 60

REV UP™

BIO TREATMENT

RATE:
Rainfed
16 - 24 fl oz / acre

Dryland
16 - 24 fl oz / acre

See page 75

DRAFT™

BIO TREATMENT

RATE:
Rainfed
16 fl oz / acre

Dryland
16 fl oz / acre

See page 64

TRACTION™

N MACRO PACKAGE

RATE:
3 gal / acre

See page 78

TOP END™

MICRO PACKAGE

RATE:
2 qts / acre

See page 77

DRAFT™

BIO TREATMENT

RATE:
16 fl oz / acre

See page 64

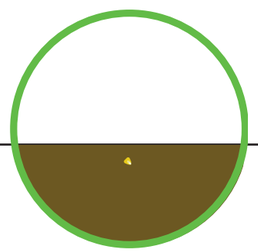
CORN — IRRIGATED

POWER2GRO PERFORMANCE

- Increases yields through targeted nutrient applications by:
  - Promoting early emergence and vigor.
  - Increasing ear girth, length, and kernel depth.
  - Supporting season-long root growth.
  - Improving late season plant health reducing the need for fungicides.
- Aligns with soil health goals.
  - Enables no-till with no yield loss.
  - Reduces total nutrients applied.
  - Overcomes nutrient tie up of decomposing residues.
  - Incorporates cover crop use and planting green.
- Improves water use efficiency.
  - Increases speed and depth of infiltration.
  - Reduces surface evaporation.

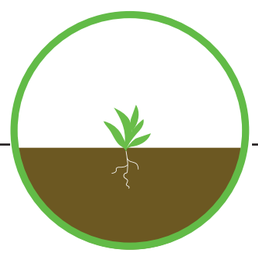
CORN — IRRIGATED APPLICATION TIMING

AT PLANTING
On-Seed



IGNITION™
ACCELERATE™
REV UP™

FOLIAR
V3-V5*



DRAFT™

*At last pass with herbicide

FERTIGATE
V5 Forward*

PENMAX™
THROTTLE™

*Fertigation timing is dependent on region. Apply THROTTLE with PENMAX on first irrigation only. Then apply PENMAX alone with each third irrigation until harvest.

BROWN SILK
R2

TRACTION™
TOP END™
DRAFT™

IGNITION™
P MACRO PACKAGE

RATE:
5 gal / acre

See page 68

ACCELERATE™
MICRO PACKAGE

RATE:
2 qts / acre

See page 60

REV UP™
BIO TREATMENT

RATE:
16 - 24 fl oz / acre

See page 75

DRAFT™
BIO TREATMENT

RATE:
16 - 24 fl oz / acre

See page 64

PENMAX™
SOIL PENETRANT

RATE:
2 qts / acre

See page 72

THROTTLE™
BIO TREATMENT

RATE:
32 fl oz / acre

See page 76

TRACTION™
N MACRO PACKAGE

RATE:
3 gal / acre

See page 78

TOP END™
MICRO PACKAGE

RATE:
2 qts / acre

See page 77

DRAFT™
BIO TREATMENT

RATE:
16 fl oz / acre

See page 64

CORN — SILAGE

POWER2GRO PERFORMANCE

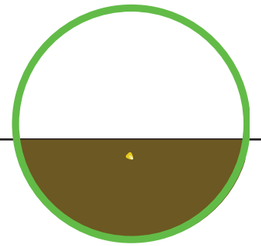
Increases yields through targeted nutrient applications by:
- Promoting early emergence and vigor.
- Increasing starch content.
- Achieving higher NDF resulting in improved digestibility and milk production.
- Improving late season plant health.

Aligns with soil health goals.
- Enables minimum till, strip-till, or no-till which reduces field time and creates an opportunity for water saving or growing a third crop.
- Quicker planting also leads to earlier maturity to beat the heat.

Improves water use efficiency.
- Increases speed and depth of infiltration.
- Reduces surface evaporation.
- Improves water holding capacity.
- Allows for scheduling flexibility.

CORN — SILAGE APPLICATION TIMING

AT PLANTING
On-Seed

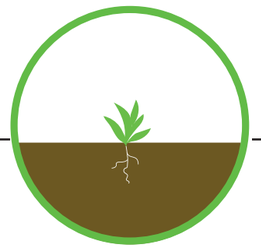


IGNITION™

ACCELERATE™

REV UP™

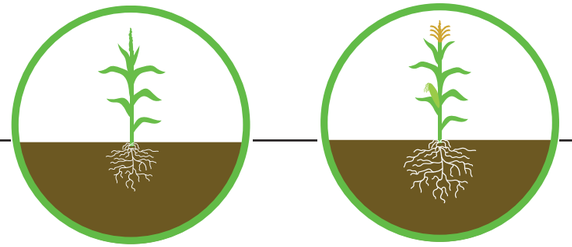
FOLIAR
V3-V5*



DRAFT™

*At last pass with herbicide.

FERTIGATE



PENMAX™

THROTTLE™

BROWN SILK
R2

TRACTION™

TOP END™

DRAFT™

IGNITION™

P MACRO PACKAGE

RATE:
5 gal / acre

See page 68

ACCELERATE™

MICRO PACKAGE

RATE:
2 qts / acre

See page 60

REV UP™

BIO TREATMENT

RATE:
24 fl oz / acre

See page 75

DRAFT™

BIO TREATMENT

RATE:
24 fl oz / acre

See page 64

PENMAX™

SOIL PENETRANT

RATE:
2 - 3 qts / acre

See page 72

THROTTLE™

BIO TREATMENT

RATE:
32 fl oz / acre

See page 76

TRACTION™

N MACRO PACKAGE

RATE:
3 gal / acre

See page 78

TOP END™

MICRO PACKAGE

RATE:
2 qts / acre

See page 77

DRAFT™

BIO TREATMENT

RATE:
24 fl oz / acre

See page 64

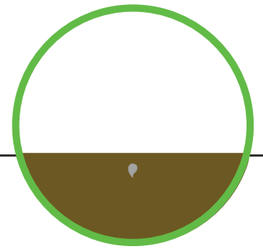
COTTON

POWER2GRO PERFORMANCE

- Achieves better emergence and first true leaf size.
- Produces improved set and retention of first position bolls.
- Improves evenness of growth and development helping to prevent rank growth.
- Attain better defoliation due to plant evenness.
- Increases overall lint length, mic, strength, and yield.
- Allows for adopting innovative practices such as strip-till and no-till cotton which can reduce the need for replant due to wind damage.

COTTON APPLICATION TIMING

AT PLANTING



IGNITION™

ACCELERATE™

REV UP™

FOLIAR
First Square to First Bloom

FAST TRACK™

DRIVE™

DRAFT™

OPTIONAL APPLICATION

FOLIAR
In High Yield Environments Foliar 14 Days Later

FAST TRACK™

DRAFT™

OPTIONAL APPLICATION

FERTIGATE
If Water Penetration Issues Occur

PENMAX™

Every third irrigation starting with first irrigation

IGNITION™
P MACRO PACKAGE

RATE:
1 gal / acre

See page 68

ACCELERATE™
MICRO PACKAGE

RATE:
2 qts / acre

See page 60

REV UP™
BIO TREATMENT

RATE:
24 fl oz / acre

See page 75

FAST TRACK™
KA MACRO PACKAGE

RATE:
1.5 gal / acre

See page 67

DRIVE™
MICRO PACKAGE

RATE:
2 qts / acre

See page 65

DRAFT™
BIO TREATMENT

RATE:
16 fl oz / acre

See page 64

FAST TRACK™
KA MACRO PACKAGE

RATE:
2 gal / acre

See page 67

DRAFT™
BIO TREATMENT

RATE:
16 fl oz / acre

See page 64

PENMAX™
SOIL PENETRANT

RATE:
1 qt / acre

See page 72

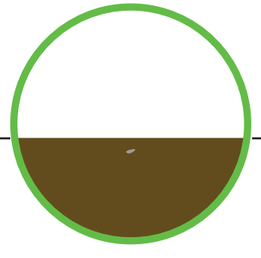
SOYBEANS

POWER2GRO PERFORMANCE

- Increases yields through targeted nutrient applications by:
  - Improving plant growth and uniformity.
  - Increasing pod set and seed size.
  - Boosting late season plant health reducing the need for fungicides.
- Aligns with soil health goals.
  - Enables no-till with no yield loss.
  - Reduces total nutrients applied.
  - Incorporates cover crop use and planting green.

SOYBEANS APPLICATION TIMING

AT PLANTING
On-Seed

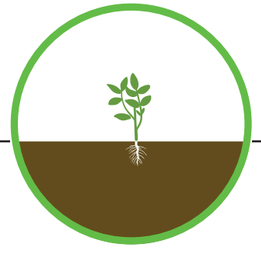


IGNITION™

ACCELERATE™

REV UP™

FOLIAR
With Last Pass of Glyphosate

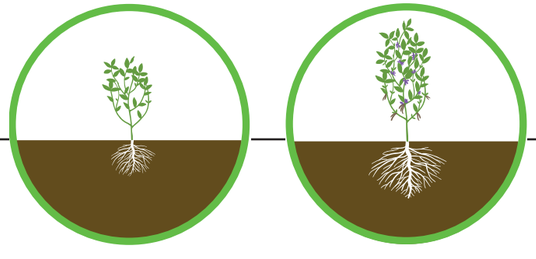


FAST TRACK™

DRIVE™

DRAFT™

FOLIAR
R3-R4*



FAST TRACK™

DRAFT™

Can tank mix with fungicide.

*Results in bigger bean, better fill and disease resistance. Putting DRAFT on at R3 keeps the plant alive longer, will affect harvest timing.

IGNITION™
P MACRO PACKAGE

RATE:
1 gal / acre

See page 68

ACCELERATE™
MICRO PACKAGE

RATE:
2 qts / acre

See page 60

REV UP™
BIO TREATMENT

RATE:
24 fl oz / acre

See page 75

FAST TRACK™
KA MACRO PACKAGE

RATE:
2 gal / acre

See page 67

DRIVE™
MICRO PACKAGE

RATE:
2 qts / acre

See page 65

DRAFT™
BIO TREATMENT

RATE:
16 fl oz / acre

See page 64

FAST TRACK™
KA MACRO PACKAGE

RATE:
2 - 3 gal / acre

See page 67

DRAFT™
BIO TREATMENT

RATE:
16 fl oz / acre

See page 64

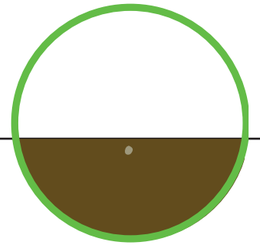
SUGAR BEETS

POWER2GRO PERFORMANCE

- Provides early season phosphorus availability with a seed-safe formulation.
- IGNITION Pro provides enhanced P mobility into the soil with late season fertigation.
- Balances nutrition for increased sucrose percentage and overall tonnage.
- Optimizes plant health for improved resistance to Rhizoctonia and other diseases.
- Improves soil aggregation which can help decrease dirt on harvested beets resulting in freight cost savings and leaving the soil in your field where it belongs.

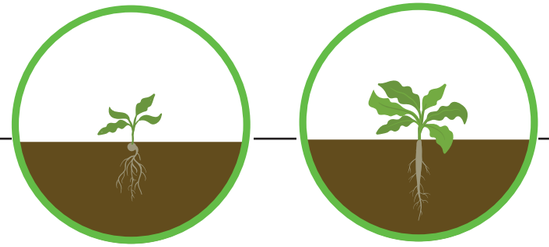
SUGAR BEETS APPLICATION TIMING

AT PLANTING
On-Seed



IGNITION™
ACCELERATE™
REV UP™

FERTIGATE
At First Irrigation and 28 Days Later



PENMAX™
THROTTLE™

FOLIAR
Option for Stress Event*

DRAFT™

***Optional.** This foliar option can help plants recover from stress events like hail, drought, heat, or chemical injury. Work with your growers to develop a plan ahead of time so you are both prepared and ready for a stress event before it happens.

FERTIGATE
40 Days Pre-Harvest

IGNITION PRO™
ACCELERATE™
RESTART™

IGNITION

P MACRO PACKAGE

RATE:
3 gal / acre

See page 68

ACCELERATE

MICRO PACKAGE

RATE:
2 qts / acre

See page 60

REV UP

BIO TREATMENT

RATE:
24 - 32 fl oz / acre

See page 75

PENMAX

SOIL PENETRANT

RATE:
2 - 4 qts / acre

See page 72

THROTTLE

BIO TREATMENT

RATE:
1 - 2 qts / acre

See page 76

DRAFT

BIO TREATMENT

RATE:
16 - 24 fl oz / acre

See page 64

IGNITION PRO

P MACRO PACKAGE

RATE:
3 gal / acre

See page 70

ACCELERATE

MICRO PACKAGE

RATE:
2 qts / acre

See page 60

RESTART

BIO TREATMENT

RATE:
24 fl oz / acre

See page 74

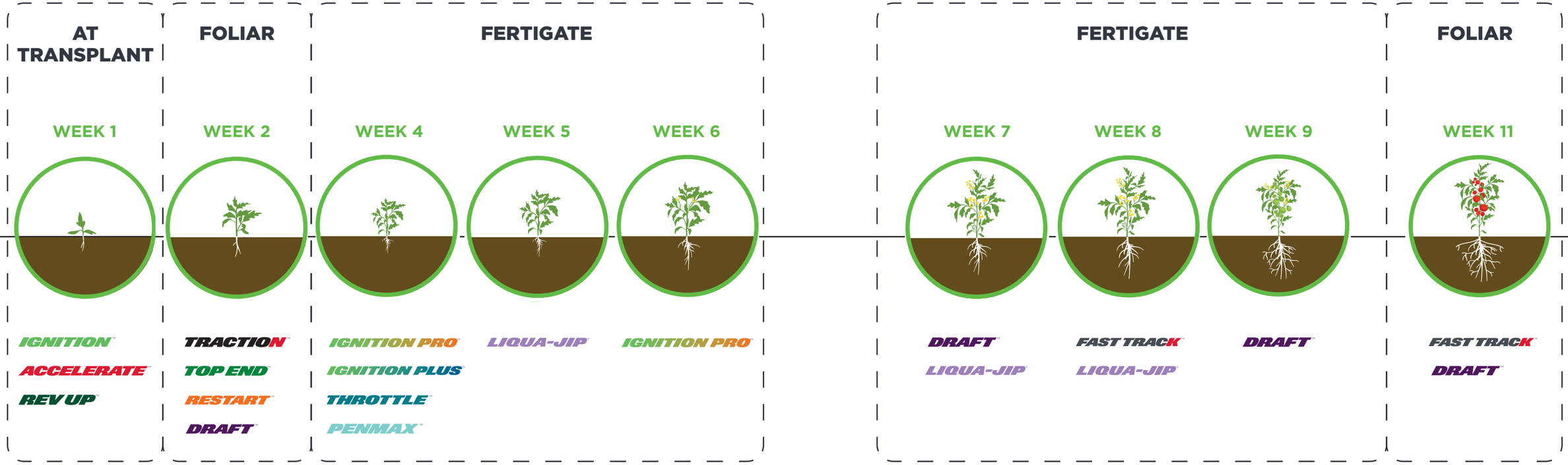
TOMATO — PROCESSING

POWER2GRO PERFORMANCE

- Increases tonnage from evenness of set.
- Improves quality components such as solids and color.
- Provides excellent late season plant health to reduce pre-harvest crashing.
- Enhances salinity management and water use efficiency.
- Creates opportunities to integrate cover crops for improved soil health.

TOMATO APPLICATION TIMING

Products, applications, and timing are dependent on variety, field location, soil type, weather conditions and water source. Consult your ASN Representative for a customized plan.



IGNITION

P MACRO PACKAGE

RATE:
5 - 8 gal / acre

See page 68

ACCELERATE

MICRO PACKAGE

RATE:
2 - 4 qts / acre

See page 60

REV UP

BIO TREATMENT

RATE:
24 - 32 fl oz / acre

See page 75

TRACTION

N MACRO PACKAGE

RATE:
1 - 3 gal / acre

See page 78

TOP END

MICRO PACKAGE

RATE:
2 qts / acre

See page 77

RESTART

BIO TREATMENT

RATE:
16 - 24 fl oz / acre

See page 74

Fertigate (week 4)
COMBINED RATE:
4 gal / acre

Fertigate (week 6)
IGNITION PRO ONLY
RATE:
4 gal / acre

IGNITION PRO

P MACRO PACKAGE

See page 70

IGNITION PLUS

P MACRO PACKAGE

See page 69

PENMAX

SOIL PENETRANT

RATE:
4 qts / acre

See page 72

THROTTLE

BIO TREATMENT

RATE:
64 fl oz / acre

See page 76

FAST TRACK

KA MACRO PACKAGE

RATE:
Fertigate (week 8)
5 gal / acre

Foliar (week 11)
1 - 2 gal / acre

See page 67

DRAFT

BIO TREATMENT

RATE:
Foliar (week 2)
16 fl oz / acre

Fertigate (week 7)
64 fl oz / acre

Fertigate (week 9)
64 fl oz / acre

Foliar (week 11) rate:
24 fl oz / acre

See page 64

LIQUA-JIP

SALINITY MANAGEMENT TREATMENT

RATE:
Fertigate (week 5)
5 gal / acre

Fertigate (week 7)
3 gal / acre

Fertigate (week 8)
3 gal / acre

See page 71

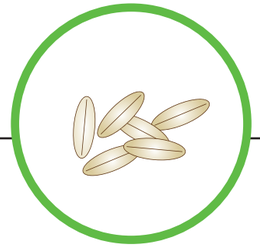
WHEAT — DRYLAND

POWER2GRO PERFORMANCE

- Boosts yields by improving root systems and soil health, building a more drought tolerant plant.
- Initiates fully developed tillers and a thicker, uniform stand with robust heads in the top of the canopy.
- Improves protein content with late season nitrogen availability and increases kernel count and test weight.
- Minimizes plant stress by increasing plant health and disease resistance, extending plant life during dry and disease periods.

WHEAT — DRYLAND APPLICATION TIMING

SEED TREATMENT



REV UP™

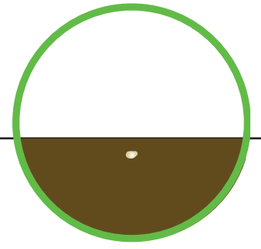
REV UP

BIO TREATMENT

RATE:
10 fl oz / 100 lbs of seed

See page 75

AT SEEDING



IGNITION™
ACCELERATE™
REV UP™

IGNITION

P MACRO PACKAGE

RATE:
1 - 3 gal / acre

See page 68

ACCELERATE

MICRO PACKAGE

RATE:
2 qts / acre

See page 60

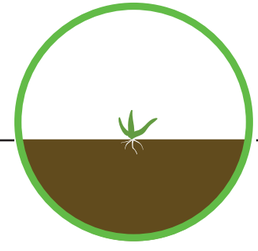
REV UP

BIO TREATMENT

RATE:
16 fl oz / acre

See page 75

STREAM BAR AT GREEN-UP



TURBO™

TURBO

BIO TREATMENT

RATE:
12.8 fl oz / acre

See page 84

FLAG LEAF FOLIAR

DRAFT™

DRAFT

BIO TREATMENT

RATE:
16 fl oz / acre

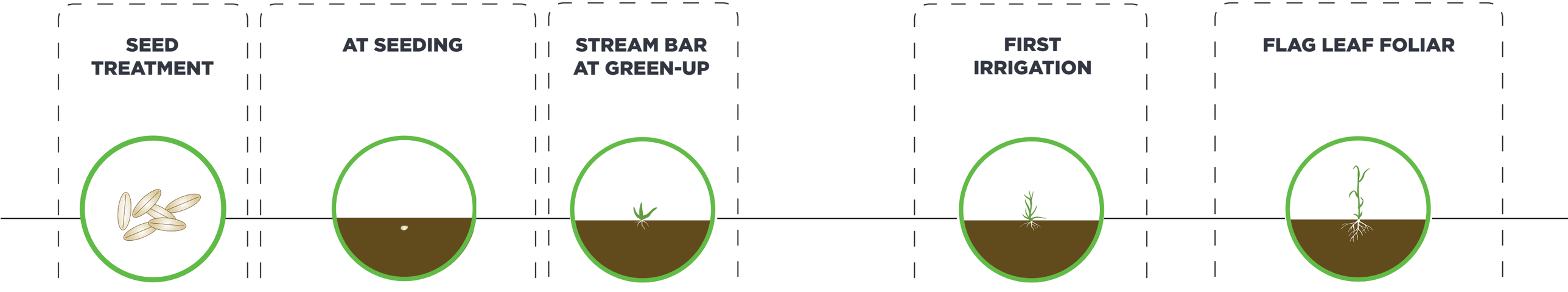
See page 64

WHEAT — IRRIGATED

POWER2GRO PERFORMANCE

- Boosts yields by improving root systems and soil health, building a more drought tolerant plant.
- Initiates fully developed tillers and a thicker, uniform stand with robust heads in the top of the canopy.
- Improves protein content with late season nitrogen availability and increases kernel count and test weight.
- Minimizes plant stress by increasing plant health and disease resistance, extending plant life during dry and disease periods.
- Improves water use efficiency through increased speed and depth of infiltration while also helping to leach salts.

WHEAT — IRRIGATED APPLICATION TIMING



REV UP

BIO TREATMENT

RATE:
10 fl oz / 100 lbs of seed

See page 75

IGNITION

P MACRO PACKAGE

RATE:
3 - 5 gal / acre

See page 68

ACCELERATE

MICRO PACKAGE

RATE:
2 qts / acre

See page 60

REV UP

BIO TREATMENT

RATE:
16 - 24 fl oz / acre

See page 75

TURBO

BIO TREATMENT

RATE:
12.8 - 16 fl oz / acre

See page 84

PENMAX

SOIL PENETRANT

RATE:
2 qts / acre

See page 72

THROTTLE

BIO TREATMENT

RATE:
32 fl oz / acre

See page 76

TRACTION

N MACRO PACKAGE

RATE:
3 gal / acre

See page 78

TOP END

MICRO PACKAGE

RATE:
2 qts / acre

See page 77

DRAFT

BIO TREATMENT

RATE:
16 fl oz / acre

See page 64

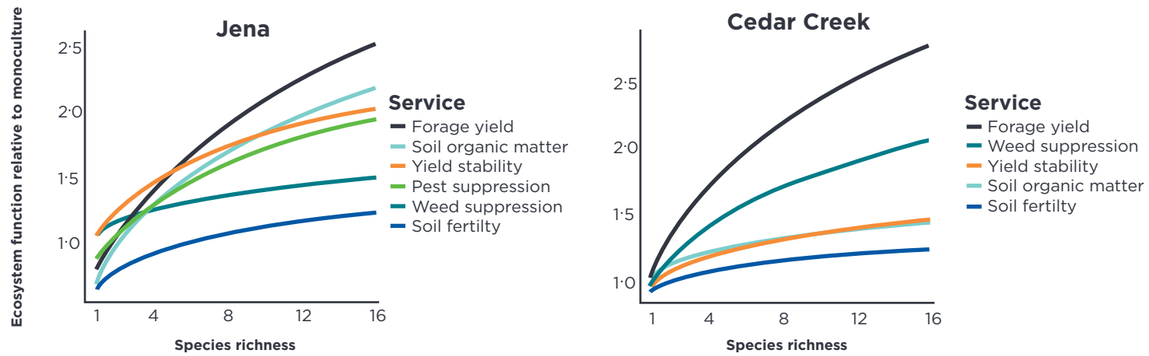
COVER CROPS

BENEFITS

- Protect soil from water, wind, and UV erosion.
- Increase infiltration and overall water holding capacity.
- Living roots create additional pore space in the soil reducing compaction.
- Attract beneficial insects, pollinators and microbes.
- Improved weed and pest suppression.

TYPES	BENEFITS
BROADLEAVES	Broadleaves attract a wide variety of pollinating insects and have quick and vigorous growth.
GRASSES	Grasses are great scavengers, effective in utilizing nutrients left over from the previous crops, establishing rapidly and tend to have an extensive root system.
LEGUMES	Legumes aid in nitrate fixation from the atmosphere thereby adding N to the soil.
BRASSICAS	Brassicas scavenge and store nutrients and can act as a biofumigant, aiding in suppressing soil pests, pathogens, and root parasites.

Research shows having a highly diverse mix of actively growing cover crop species maximizes their potential benefits. We recommend including at least 2 species from each of the 4 functional groups for best results.



Source: British Ecological Society. https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2745.12789

SPECIALTY CROPS

The POWER2GRO Crop Production System has proven success with many other specialty crops. Ag Solutions Network will help you provide a customized plan to meet your growers' needs.

ASN has experience with the following:

- **Broccoli**
- **Cabbage**
- **Cauliflower**
- **Garlic**
- **Iceberg**
- **Market Tomato**
- **Melons**
- **Mixed Greens**
- **Onion**
- **Peppers**
- **Potato**
- **Romaine**
- **Sweet Corn**
- **Sweet Potato**
- **Wine Grapes**

ACCELERATE™

MICRONUTRIENT PACKAGE

- Contains proprietary sugar alcohols for translocation of nutrients throughout plant tissues.
- Formulated with three-dimensional humic and fulvic acids for higher cation exchange capacity.
- Includes soil grade surfactants for even application throughout the seed trench or plant tissues.
- Contains 6 essential micronutrients at key ratios for optimum uptake and growth.
- Significantly increase phosphorus uptake, root expression, early vigor, and cold weather tolerance which will improve plant health and defense mechanisms.

ACCELERATE is compatible with most pesticides and liquid fertilizers. ACCELERATE is a proprietary liquid chelated micronutrient package for application to agricultural crops.

NPK: N/A

Cobalt (Co) 0.025% | Chelated Copper (Cu) 0.25% | Chelated Zinc (Zn) 1.0% | Chelated Manganese (Mn) 0.5% | Chelated Iron (Fe) 0.5% | Molybdenum (Mo) .025%
Derived from Cobalt Sulfate, Copper EDTA, Iron HEDTA, Manganese EDTA, Sodium Molybdate, and Zinc EDTA
AAT (Advanced Additive Technology)

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor	Sweet
Water Solubility	Complete
Density	9.02 LB/GAL (68°F) 1.08 KG/L (20°C)
pH	7.7
Freezing Point	27°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	IGNITION™
MICRO	ACCELERATE™
BIO	REV UP™ RESTART™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

BLOW OUT™

CONCENTRATED DEFOAMING AGENT

- Prevent foam or knock down foam created when mixing products.
- Approved for food contact.
- Water-dilutable; effective in VERY low concentrations.
- Sold in 1 gal. box; 4 one-quart spray bottles per box.

BLOW OUT can be used in aqueous medium, either neat or diluted with cool water. Diluted material should be used as soon as possible. Spray as needed to control foaming. 100 parts of active silicone per million parts of foamer is recommended, however, in many cases 1 to 10 ppm is sufficient.

Store between 41°F and 95°F. If freezing occurs, performance should not be diminished; completely thaw then thoroughly mix before using. Approved for food contact.

NPK: N/A

Proprietary Silicone Emulsion 10%
Derived from non-ionic emulsifier

TECHNICAL DATA

Appearance	White Liquid
Odor	Typical
Water Solubility	Complete
Density	2.01 LB/QT (68°F) 1.00 KG/L (20°C)
pH	3.5
Freezing Point	N/A
Boiling Point	95°F (35°C)

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

BURN OUT™

SPRAY-WATER ADDITIVE

- Contains an enzyme package to aid in plant surface uptake.
- Specialized surfactant package for optimum coverage.
- Includes a food grade dye for visual indication that water is treated.
- One product to replace AMS, Spreaders, Surfactants, and Buffer products. Oil based products such as COC and MSO are still required.
- The low pH of the product allows more flexibility to achieve desired spray water pH.
- Improves effectiveness of glyphosate and most contact herbicides, insecticides, fungicides and defoliants.
- Treat all spray water for at least 20 minutes prior to adding active ingredients.
- ALWAYS READ AND FOLLOW ALL ACTIVE INGREDIENT LABEL DIRECTIONS.

DO NOT use with Sulfuron based herbicides or products that are sensitive to a pH less than 7.

BURNOUT is compatible with most liquid fertilizers and pesticides. Always conduct a 24 hour compatibility test prior to applying with any other products.
Pre-treat your spray water tank using a Dosatron. Add BURNOUT to spray water solution first. BURNOUT is designed to lower the pH of the spray water solution. Always read and follow manufacturer's label directions of all pesticides.

NPK: 5-0-0

Nitrate Nitrogen (N) 5.0% | Sulfur (S) 6.000%
Derived from: Nitrate Nitrogen and Sulfur

TECHNICAL DATA

Appearance	Red Liquid
Odor	Typical
Water Solubility	Complete
Density	9.92 LB/GAL (68°F)
	1.19 KG/L (20°C)
pH	0.9
Freezing Point	5°F (+/-5°)
Boiling Point	N/A

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

CONTROL™

SRN MACRONUTRIENT PACKAGE

- Slow-release liquid fertilizer formulated from low-biuret urea.
- Designed to provide nitrogen over an extended period of time as a foliar application on many crops.
- Formulated to be non-toxic to plants.
- Contains Boost additive for maximum effectiveness.

DO NOT USE with TOP END.

Always conduct a 24 hour compatibility test prior to applying with any other products.

NPK: 27-0-0

Urea Nitrogen (N) 8% | Urea-Triazone Nitrogen (N) 19%
Derived from Urea, Urea-Triazone.

TECHNICAL DATA

Appearance	Clear Liquid
Odor	Slight Amine Odor
Water Solubility	Complete
Density	10.60 LB/GAL (68°F)
	1.27 KG/L (20°C)
pH	9.1
Freezing Point	-5°F (+/-5°)
Boiling Point.	219°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	CONTROL™
BIO	DRAFT™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

DRAFT™

PLANT BIOLOGICAL TREATMENT

- Contains cold water kelp extracts, lignin polymers derived from fresh versus mined sources, and enzymes for growth and development.
- Reduces plant stress caused from reproduction, drought, heat, wind, hail, or pests to improve plant health.
- Improves regrowth recovery and increases quality/digestibility of forages.
- Signals root growth, extension and division.

DRAFT is compatible with most liquid fertilizers and pesticides. Mix DRAFT in enough water to ensure adequate coverage. Use prior or immediately after stress events. Always conduct a 24-hour compatibility test prior to mixing with any other products.

NPK: 0-0-3

Soluble Potash (K20) 3.000%
ALSO CONTAINS NONPLANT FOOD INGREDIENTS: 30% Kelp Extracts (microbe food)
Derived from: Kelp Extract.

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor	Typical
Water Solubility	Complete
Density	9.01 LB/GAL (68°F) 1.08 KG/L (20°C)
pH	7.7
Freezing Point	26°F (+/-5°)
Boiling Point	N/A

HIGH-PERFORMANCE TEAM

MACRO	TRACTION™ CONTROL™ FAST TRACK™
MICRO	TOP END™ DRIVE™
BIO	DRAFT™ RESTART™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

DRIVE™

MICRONUTRIENT PACKAGE

- Contains 6 essential micronutrients at key ratios for optimum legume growth.
- Formulated with proprietary three-dimensional humic and fulvic acid, and surfactants.
- Contains sugar alcohols for translocation of nutrients throughout plant tissues.
- Includes soil grade surfactants for even application throughout the seed trench or plant tissues.
- Significantly improve cutting recovery, stress tolerance, plant health and forage quality.

DRIVE is a proprietary liquid chelated micronutrient package for application on agricultural crops. DRIVE is compatible with most pesticides and other liquid fertilizers.

NPK: 5-0-0

Urea Nitrogen (N) 5% | Cobalt (Co) 0.033% | Chelated Copper (Cu) 0.25% | Chelated Iron (Fe) 0.5% | Chelated Manganese (Mn) 1.0% | Molybdenum (Mo) 0.001% | Chelated Zinc (Zn) 0.5%

Derived from Low-Biuret Urea, Cobalt Sulfate, Copper EDTA, Iron EDTA, Manganese EDTA, Sodium Molybdate, and Zinc EDTA.

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor	Sweet
Water Solubility	Complete
Density	9.21 LB/GAL (68°F) 1.10 KG/L (20°C)
pH	7.1
Freezing Point	1°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	FAST TRACK™ IGNITION™
MICRO	DRIVE™
BIO	RESTART™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

ENHANCE® THA

TECHNICAL HUMIC ACID LIQUID CONCENTRATE

- Formulated through a unique process that creates a three-dimensional versus linear molecular alignment which increases cation exchange capacity.
- Utilized with UAN 28/32 and other liquid fertilizers to aid in stability and bioavailability of applied nutrients.
- Enhances carbon status and biological activity in degraded soils.

ENHANCE is a concentrated Technical Humic Acid liquid designed to help loosen compacted soils and facilitate water penetration. ENHANCE is for use with fertilizers and micronutrients and is compatible with most.

NPK: N/A

Humic Acid 6%
Derived from Leonardite.

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor	Light Ammonia
Water Solubility	Complete
Density	8.68 LB/GAL (68°F) 1.05 KG/L (20°C)
pH	10.0
Freezing Point	N/A
Boiling Point	215°F (106°C)

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

FAST TRACK™

KA MACRONUTRIENT WITH ADDITIVE PACKAGE

- Highly concentrated Potassium formula (29%), which means buying and shipping less water.
- Formulated with acetic acid which is used as a fungicide in many organic systems.
- FAST TRACK additive, our unique fulvic and surfactant package gets added at dealer location.
- Corrects and prevents potassium deficiencies which drives fruit and grain quality.
- Mitigates plant stress and improves water use efficiency.

FAST TRACK is a high quality potassium (K) source designed to correct or prevent K deficiencies. It is also used to drive fruit and grain quality and assist with stress related events. Contains key components to enhance uptake.

NPK: 0-0-29

Soluble Potash (K2O) 29%
Derived from Potassium Acetate.

TECHNICAL DATA

Appearance	Clear Liquid
Odor	Odorless to Slight Vinegar
Water Solubility	Complete
Density	11.18 LB/GAL (68°F) 1.34 KG/L (20°C)
pH	8.0-10.0
Freezing Point	0°F (+/-5°)
Boiling Point	222°F (106°C)

HIGH-PERFORMANCE TEAM

MACRO	FAST TRACK™
MICRO	DRIVE™
BIO	DRAFT™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

IGNITION™

P MACRONUTRIENT PACKAGE

- Produced from a high-quality source of 100% ortho phosphoric acid.
- Formulated at a 6.2 pH for stability and availability of P and acidifies the seed zone for greater overall nutrient availability.
- Designed for on-seed, foliar or fertigation use.
- Unique P to K ratio for seed formation and vigorous vegetative growth.

IGNITION is a liquid fertilizer formulated from 100% orthophosphoric acid for high quality and developed to be used on seed or foliar. It provides early nutrition for seed formation and vigorous vegetative growth.

NPK: 9-20-3

Ammoniacal Nitrogen (N) 3.6% | Urea Nitrogen (N) 5.4% | Available Phosphoric Acid (P205) 20.000% | Soluble Potash (K20) 3.000%
Derived from Ammonium Hydroxide, Low Biuret Urea, Phosphoric Acid, Potassium Hydroxide

TECHNICAL DATA

Appearance	Clear Liquid
Odor.	Typical
Water Solubility	Complete
Density	10.55 LB/GAL (68°F) 1.26 KG/L (20°C)
pH	6.4
Freezing Point	6°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	IGNITION™ IGNITION PRO™ IGNITION PLUS™
MICRO	ACCELERATE™ DRIVE™
BIO	REV UP™ RESTART™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

IGNITION PLUS™

P MACRONUTRIENT ADDITIVE PACKAGE

- Keyword: AVAILABILITY
- PLUS additive is a proprietary combination of organic carriers and acids when used with IGNITION, FAST TRACK, 10-34-0, or other commercial fertilizers, enhances the long term availability of NPK.
- Reduces phosphate tie-up in soils with high calcium.
- Buffers against salt injury to roots from conventional fertilizers.

PLUS Additives A & B are NOT for direct resale; they are an additive or ingredient product ONLY. PLUS Additives are mixed with IGNITION on site by an authorized ASN Dealer.

NPK: 8-19-2

HIGH-PERFORMANCE TEAM

MACRO	IGNITION™ IGNITION PRO™ IGNITION PLUS™
MICRO	ACCELERATE™
BIO	REV UP™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

IGNITION PRO™

P MACRONUTRIENT ADDITIVE PACKAGE

- Keyword: MOBILITY
- PRO additive is a proprietary combination of organic carriers and acids that when used with IGNITION, 10-34-0, or other phosphorus fertilizer enhances mobility of applied phosphorus.
- Behaves like a chelating agent for phosphorus allowing mobility throughout the rooting zone.
- Excellent for late season fertigation of phosphorus in high demand crops such as tomatoes, potatoes, sugarbeets, and alfalfa.

PRO Additive is NOT for direct resale; it is an additive or ingredient product ONLY. PRO Additive is mixed with IGNITION on site by an authorized ASN Dealer.

NPK: 8-19-3

HIGH-PERFORMANCE TEAM

MACRO	IGNITION™ IGNITION PRO™ IGNITION PLUS™
MICRO	ACCELERATE™
BIO	REV UP™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

LIQUA-JIP®

SALINITY MANAGEMENT TREATMENT

- Derived from calcium acetate providing a highly soluble calcium source.
- Designed to exchange quickly allowing sodium to leach.
- When used with PENMAX®, exchanged salts are leached through the soil profile.

LIQUA-JIP can be applied via irrigation injection, broadcast or banded applications to provide a plant available calcium source during key plant stages where calcium is in high demand.

NPK: N/A

Calcium (Ca) 8.000%
Derived from: Calcium Lignosulfonate.

TECHNICAL DATA

Appearance	Medium Brown Liquid
Odor	Sweet
Water Solubility	Complete, Miscible
Density	10.14 LB/GAL (68°F) 1.21 KG/L (20°C)
pH	1.7
Freezing Point	32°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	FAST TRACK™
BIO	DRAFT™ THROTTLE™
SOIL AMENDMENT	LIQUA-JIP®
SOIL PENETRANT	PENMAX™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

PENMAX™

SOIL PENETRANT TREATMENT

- Increases water surface infiltration and penetration throughout the soil profile.
- Allows improved soil flocculation which reduces bulk density (loosens soils), reduces soil dispersion (soil crusting) and improves stable soil aggregate concentration (reduced clodding).
- Increases the microbial base in soil by improving soil oxygen content and breaking down into a microbial food source.
- Eliminates runoff, improves water use efficiency, water holding capacity and a plays a key role in salinity management.

PENMAX is a proprietary surfactant package for soil application to agricultural crops. PENMAX should be applied in irrigation water for best results and may also be used in spray water solutions for enhanced uptake. It is compatible with most pesticides and other liquid fertilizers.

NPK: N/A

CONTAINS NONPLANT FOOD INGREDIENTS:
25% Poly (oxy-1, 2-ethanediyl), alpha-(nonylphenyl)–omega–hydroxy

TECHNICAL DATA

Appearance	Clear Blue-Green Liquid
Odor.	Bland
Water Solubility	Complete
Density	8.51 LB/GAL (68°F)
	1.02 KG/L (20°C)
pH	6.3
Freezing Point	32°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

BIO	THROTTLE™ TURBO™
SOIL AMENDMENT	LIQUA-JIP®
SOIL PENETRANT	PENMAX™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

PIT STOP™

FOLIAR MICRONUTRIENT PACKAGE

- Contains key micronutrients designed to correct deficiencies associated with glyphosate applications or alkaline soil conditions.
- Blend of a specific ratio of zinc, iron and manganese to intercept remobilization of glyphosate and replace nutrient deficiencies caused by glyphosate.
- Best applied 10 days after glyphosate treatment.

DO NOT USE with phosphorus or glyphosate products.

PIT STOP is a proprietary liquid complexed micronutrient package for foliar application to agricultural crops. PIT STOP is compatible with most pesticides and other liquid fertilizer. Always conduct a 24 hour compatibility test prior to applying with any other products.

NPK: N/A

Iron (Fe) 2.000% | Manganese (Mn) 2.000% | Zinc (Zn) 3.000%
Derived from Ferrous Sulfate, Manganese Sulfate, Zinc Sulfate.
Complexed with Lignosulfonate.

TECHNICAL DATA

Appearance	Dark Green Liquid
Odor	Sweet
Water Solubility	Complete
Density	10.32 LB/GAL (68°F)
	1.24 KG/L (20°C)
pH	4.1
Freezing Point	32°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	TRACTION™
MICRO	PIT STOP™ TOP END™
BIO	DRAFT™ TURBO™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

RESTART™

PLANT BIOLOGICAL TREATMENT

- A proprietary blend of fermentation extracts, enzymes, amino acids, plant extracts, and surfactants.
- Designed to enhance vegetative growth and reproductive potential.
- Provides the natural occurring components for a plant to utilize for optimum growth versus synthetic components which can potentially create irregular growth.

RESTART is designed to be used as a foliar to enhance vegetative and reproductive growth. **RESTART** is compatible with most pesticides and liquid fertilizers.

NPK: N/A

CONTAINS NONPLANT FOOD INGREDIENTS:
5% Surfactant, non-ionic | 1% Kelp Extract (microbe food)

TECHNICAL DATA

Appearance	Dark Green Liquid
Odor	Typical
Water Solubility	Complete
Density	8.45 LB/GAL (68°F) 1.01 KG/L (20°C)
pH	5.1
Freezing Point	41°F (+/-5°)
Boiling Point	N/A

HIGH-PERFORMANCE TEAM

MACRO	IGNITION™ FAST TRACK™ TRACTION™
MICRO	DRIVE™ TOP END™ ACCELERATE™
BIO	RESTART™ DRAFT™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

REV UP™

SEED BIOLOGICAL TREATMENT

- A proprietary blend of fermentation extracts, enzymes, amino acids, plant extracts, vitamin B12, and surfactants.
- Improves seedling germination, root expression, plant vigor and nutrient uptake.
- Utilized in liquid on-seed nutrition or as a seed treatment.
- Provides the natural occurring components for a plant to utilize for optimum growth versus synthetic components which can potentially create irregular growth.
- NOTE: The dead fish smell is normal

REV UP is designed to be used as a seed treatment or directly on-seed at planting to improve seedling germination, and root expression. REV UP is compatible with most pesticides and liquid fertilizers.

NPK: N/A

CONTAINS NONPLANT FOOD INGREDIENTS:
10% Surfactant, non-ionic | 9% Kelp Extract (Microbe Food)

TECHNICAL DATA

Appearance	Dark Green Liquid
Odor	Dead Fish
Water Solubility	Complete
Density	8.42 LB/GAL (68°F) 1.01 KG/L (20°C)
pH	5.5
Freezing Point	34°F (+/-5°)
Boiling Point	N/A

HIGH-PERFORMANCE TEAM

MACRO	IGNITION™
MICRO	ACCELERATE™
BIO	REV UP™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

THROTTLE™

SOIL BIOLOGICAL TREATMENT

- A proprietary blend of surfactants, lignin polymers, fermentation extracts, and enzymes.
- Improves root system resistance to salts by increasing root mucilage production and enhanced microbial activity.
- Designed to degrade carryover herbicides which may cause issues with subsequent crop rotations (please consult with ASN for condition specific recommendations).

DO NOT mix with IGNITION, BURN OUT, or Ammonium Thiosulfate (ATS). **DO NOT** apply with products of less than 7 pH. **DO NOT** mix with sulphur or phosphorus.

THROTTLE can be banded, broadcast, or fertigated. It is designed to improve root system resistence to salts and herbicide carryover. THROTTLE may NOT be compatible with pesticides and other liquid fertilizers.

NPK: N/A

CONTAINS NONPLANT FOOD INGREDIENTS:
27% Surfactant, non-ionic | 25% Lignosulfonate Polymers

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor	Typical
Water Solubility	Complete
Density	8.85 LB/GAL (68°F) 1.05 KG/L (20°C)
pH	3.3
Freezing Point	30°F (+/-5°)
Boiling Point	N/A

HIGH-PERFORMANCE TEAM

BIO	THROTTLE™
SOIL AMENDMENT	LIQUA-JIP®
SOIL PENETRANT	PENMAX™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

TOP END™

FOLIAR MICRONUTRIENT PACKAGE

- Baseline micronutrient package to use with foliar applications. Add TUNE UP products with TOP END to address specific nutrient deficiencies.
- Contains a high level of immediately available calcium for fruit and seed formation of a maturing crop and disease suppression.
- Nutrients are nitrate based for quick absorption and small molecular size.
- Contains sugar alcohols for translocation of nutrients throughout plant tissues.
- Optimizes late season nutrient status.

TOP END is a proprietary liquid complexed micronutrient package for foliar application to agricultural crops. TOP END is compatible with most insecticides, fungicides, herbicides, liquid fertilizers, and other foliar micronutrients.

NPK: 5-0-0

Nitrate Nitrogen (N) 5% | Calcium (Ca) 3.000% | Magnesium (Mg) 0.500% | Boron (B) 0.250% | Cobalt (Co) 0.001% | Manganese (Mn) 0.500% | Molybdenum (Mo) 0.001% | Zinc (Zn) 1.000%
Derived from Calcium Nitrate, Magnesium Nitrate, Sodium Borate, Cobalt Sulfate, Manganese Nitrate, Sodium Molybdate, and Zinc Nitrate.
Complexing agent derived from Lignosulfonate.

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor	Sweet
Water Solubility	Complete
Density	9.95 LB/GAL (68°F) 1.19 KG/L (20°C)
pH	2.5
Freezing Point	10°F (+/-5°)
Boiling Point.	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	TRACTION™
MICRO	TOP END™ PIT STOP™
BIO	DRAFT™ TURBO™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

TRACTION™

N MACRONUTRIENT PACKAGE

- Derived from low biuret urea for plant safety and effectiveness.
- Formulated to be used as part of foliar application on many crops.
- Contains boost additive designed to increase uptake and stability in storage.
- Excellent product to enhance uptake of all tank mixed products.

TRACTION is a liquid fertilizer formulated from low-biuret urea. It is designed to be used as a foliar application on agricultural crops; Contains additives designed to increase uptake and stabilize.

NPK: 21-0-0

Urea Nitrogen (N) 21%
Derived from Low-Biuret Urea.

TECHNICAL DATA

Appearance	Light Brown Liquid
Odor	Slight Ammonia Odor
Water Solubility	Complete
Density	9.40 LB/GAL (68°F) 1.13 KG/L (20°C)
pH	7.2
Freezing Point	1°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO TRACTION™

MICRO TOP END™ PIT STOP™ TUNE UP B™ TUNE UP FE™ TUNE UP MN™ TUNE UP MO™ TUNE UP ZN™

BIO DRAFT™ RESTART™ TURBO™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

TUNE UP B™

BORON PACKAGE

- 10% Boric Acid base product.
- Includes innovative yucca extract which aids in plant uptake and utilization.
- Designed for both foliar application and fertigation.
- Provides plant available boron, essential for plant growth, development and potassium utilization/transport.

TUNE UP B is a proprietary liquid micronutrient package for foliar application on agricultural crops and is compatible with most pesticides, liquid fertilizers, and other foliar micronutrients. Always conduct a 24 hour compatibility test prior to applying with any other products.

NPK: N/A

Boron (B) 10.000%
ALSO CONTAINS NONPLANT FOOD INGREDIENTS: 1% Yucca schidigera
Derived from Boric Acid.

TECHNICAL DATA

Appearance	Brown Liquid
Odor	Sweet
Water Solubility	Complete
Density	11.10 LB/GAL (68°F) 1.33 KG/L (20°C)
pH	8.1
Freezing Point	20°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO TRACTION™ FAST TRACK™

MICRO TUNE UP B™

BIO DRAFT™ TURBO™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

TUNE UP FE™

FOLIAR IRON PACKAGE

- Designed for foliar application.
- Includes innovative yucca extract which aids in plant uptake and utilization.
- Derived from ferrous sulfate and complexed with lignosulfonate for excellent plant availability.
- Provides an immediately available iron source to overcome deficiencies.

DO NOT mix with phosphorus or glyphosate products.

TUNE UP Fe is a proprietary liquid complexed micronutrient package for foliar application to agricultural crops and is compatible with most pesticides, liquid fertilizers, and other foliar micronutrients. Always conduct a 24 hour compatibility test prior to applying with any other products.

NPK: N/A

Iron (Fe) 5.500%
ALSO CONTAINS NONPLANT FOOD INGREDIENTS: 1% Yucca schidigera
Derived from Ferrous Sulfate
Complexed with Lignosulfonate.

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor	Bland
Water Solubility	Complete
Density	9.72 LB/GAL (68°F) 1.17 KG/L (20°C)
pH	4.3
Freezing Point	28°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	TRACTION™
MICRO	TUNE UP FE™ TOP END™
BIO	DRAFT™ TURBO™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

TUNE UP MN™

FOLIAR MANGANESE PACKAGE

- Designed for foliar application.
- Derived from manganese sulfate and complexed with lignosulfonate for excellent plant availability.
- Provides an immediately available manganese source to overcome deficiencies.

DO NOT mix with phosphorus or glyphosate products.

TUNE UP Mn is a proprietary liquid complexed micronutrient package for foliar application to agricultural crops and is compatible with most pesticides, liquid fertilizers, and other foliar micronutrients. Always conduct a 24 hour compatibility test prior to applying with any other products.

NPK: N/A

Nitrate Nitrogen (N) 2.1% | Manganese (Mn) 5.000%
Derived from Manganese Nitrate.
Complexed with Lignosulfonate.

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor	Sweet
Water Solubility	Complete
Density	9.80 LB/GAL (68°F) 1.17 KG/L (20°C)
pH	6.1
Freezing Point	1°F (+/-5°)
Boiling Point	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	TRACTION™
MICRO	TUNE UP MN™ TOP END™
BIO	DRAFT™ TURBO™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

TUNE UP MO™

FOLIAR MOLYBDENUM PACKAGE

- Designed for foliar application.
- Derived from sodium molybdate for immediate availability.
- Provides an immediately available molybdenum source to overcome deficiencies.
- Molybdenum can be toxic to certain ruminant animals, caution must be used in grazing or forage harvesting scenarios.

DO NOT mix with glyphosate products.

TUNE UP Mo is a proprietary liquid complexed micronutrient package for foliar application to agricultural crops and is compatible with most pesticides, liquid fertilizers, and other foliar micronutrients. Always conduct a 24 hour compatibility test prior to applying with any other products.

NPK: N/A

Molybdenum (Mo) 5%
Derived from sodium molybdate.

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor.	Slight
Water Solubility	Complete
Density	9.2 LB/GAL (68°F) 1.10 KG/L (20°C)
pH	6.7
Freezing Point.	N/A
Boiling Point.	N/A

HIGH-PERFORMANCE TEAM

MACRO	TRACTION™
MICRO	TUNE UP MO™ TOP END™
BIO	DRAFT™ TURBO™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

TUNE UP ZN™

FOLIAR ZINC PACKAGE

- Designed for foliar application.
- Derived from zinc sulfate and complexed with lignosulfonate for excellent plant availability.
- Provides an immediately available zinc source to overcome deficiencies.

DO NOT mix with phosphorus or glyphosate products.

TUNE UP Zn is a proprietary liquid complexed micronutrient package for foliar application to agricultural crops and is compatible with most pesticides, liquid fertilizers, and other foliar micronutrients. Always conduct a 24 hour compatibility test prior to applying with any other products.

NPK: N/A

Nitrate Nitrogen 2.7% | Zinc (Zn) 7.000%
Derived from Zinc Nitrate. Complexed with Lignosulfonate.

TECHNICAL DATA

Appearance	Dark Brown Liquid
Odor.	Sweet
Water Solubility	Complete
Density	10.12 LB/GAL (68°F) 1.21 KG/L (20°C)
pH	4.9
Freezing Point.	12°F (+/-5°)
Boiling Point.	215°F (102°C)

HIGH-PERFORMANCE TEAM

MACRO	TRACTION™
MICRO	TUNE UP ZN™ TOP END™
BIO	DRAFT™ TURBO™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

TURBO™

BIOLOGICAL TREATMENT

- Next generation bio-stimulant with nearly 50 percent more fermented extracts.
- Enhances root growth and microbial mineralization.
- Stimulates plant and root growth.
- Contains components that prevent UV breakdown in container.

DO NOT mix with Sulfur, Fertilizer, Sulfur Water, or Solutions with lower than 7 pH.

TURBO is designed to stimulate plant and root growth and is meant for soil or foliar application. TURBO is compatible with glyphosate, most pesticides, and other liquid fertilizers. Always conduct a 24 hour compatibility test prior to applying with any other products.

NPK: N/A

Chelated Copper (Cu) 0.07% | Chelated Iron (Fe) 0.35% | Chelated Zinc 1.0%
Derived from: Copper EDTA, Iron EDTA, and Zinc EDTA
ALSO CONTAINS NONPLANT FOOD INGREDIENTS: Humic Acid derived from Leonardite 3%

TECHNICAL DATA

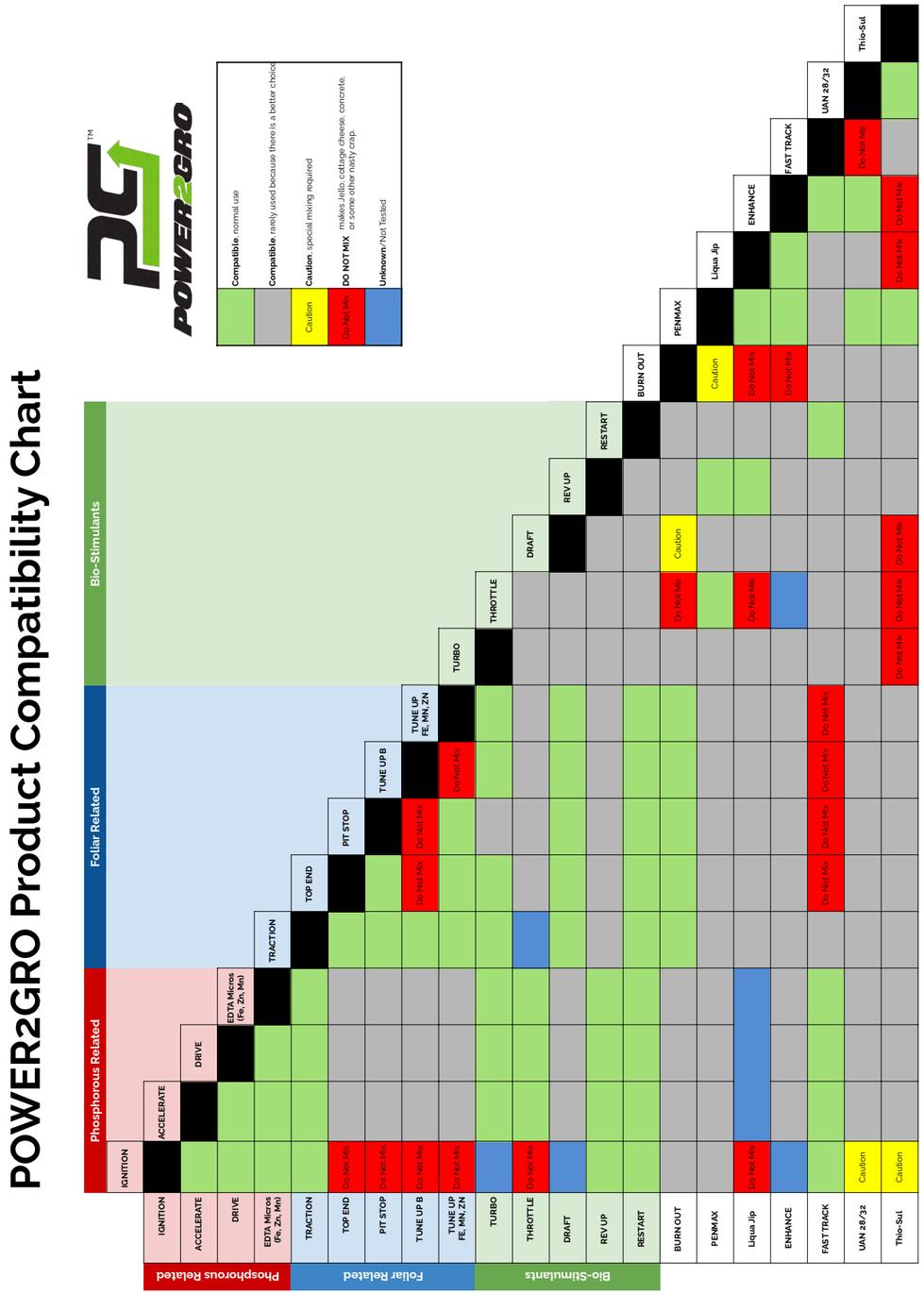
Appearance	Dark Brown Liquid
Odor	Typical
Water Solubility	Complete
Density	8.72 LB/GAL (68°F) 1.04 KG/L (20°C)
pH	5.1
Freezing Point	34°F (+/-5°)
Boiling Point	N/A

HIGH-PERFORMANCE TEAM

MACRO	TRACTION™
MICRO	TOP END™
BIO	TURBO™

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

POWER2GRO Product Compatibility Chart



UNSURE OF THE BEST *EQUIPMENT* TO USE?

WE HAVE RECOMMENDATIONS

Using proper equipment for all processes and applications is essential to providing the best chance for each plant. ASN has existing agreements and access to discounted pricing for several types of equipment and will provide recommendations or assistance sourcing any other equipment needs.

ALWAYS TEST FOR COMPATIBILITY

Jar test instructions:

Confirm product mix compatibility by doing a test run in a standard mason jar. Test ratios first before mixing in the tank to prevent reactions that could damage or clog application equipment.

ITEMS NEEDED:

Always read the product label. Some products must be mixed in a specific order or are incompatible with other products. Be sure to read the label and handling instructions carefully before using.

1-quart jar

water

teaspoon to measure liquids (2 teaspoons = 10 ml)

desired products for mixing

Here are some guiding principles on how to jar test fertilizer mixes to ensure best results.

1. **Be prepared.** Gather all ingredients prior to mixing.
2. **Pre-measure ingredients.** Check your portions and measure accurately.
3. **Start with water.** Add 1 pint of water to your 1-quart jar.
4. **Add ingredients.** Following product label instructions, add pre-portioned ingredients in the proper order.
5. **Mix.** Add additional water, seal jar with a lid, and then invert to mix ingredients into a homogeneous mixture. **DO NOT SHAKE.**
6. **Let sit.** Leave the jar alone for at least 24 hours. Observe reaction (precipitates, layering, or clumping).

Note: Jar testing does not ensure compatibility of products. Changes to product ratios, mixing order, or exposure to remaining chemical in an unwashed tank can cause changes in reaction. Please use caution and proper PPE when mixing products.

RATE TABLES BY CROP

ALFALFA

CROP STAGE	AT PLANTING		EARLY VEGETATIVE FOLIAR — COOL			EARLY VEGETATIVE FOLIAR — HOT			IRRIGATION	
PRODUCTS	ACCELERATE	REV UP	IGNITION	DRIVE	RESTART	FAST TRAC	DRIVE	DRAFT	PENMAX	THROTTLE
NPK ANALYSIS	5- 0-0	N/A	9-20-3	5-0-0	N/A	0-0-29	5-0-0	0-0-3	N/A	N/A
PRODUCT TYPE	Micro	Bio	Macro	Micro	Bio	Macro	Micro	Bio	Soil Penetrant	Bio
RATE	3 qts / acre	32 fl oz / acre	3 gal / acre	2 qts / acre	16 fl oz / acre	1.5 - 3 gal / acre	2 qts / acre	16 - 24 fl oz / acre	2 qts / acre	32 fl oz / acre

ALMOND

Products, applications and timing are dependent on field location, soil type, weather conditions and water source. Consult your ASN dealer for a customized plan.

CORN

CROP STAGE	AT PLANTING			FOLIAR V3-V5	BROWN SILK R2		
PRODUCTS	IGNITION	ACCELERATE	REV UP	DRAFT	TRACTION	TOP END	DRAFT
NPK ANALYSIS	9-20-3	5-0-0	N/A	0-0-3	21-0-0	5-0-0	0-0-3
PRODUCT TYPE	Macro	Micro	Bio	Bio	Macro	Micro	Bio
RATE	*Dryland:* 1 - 3 gal / acre *Rainfed:* 4 - 5 gal / acre	*Dryland:* 2 qts / acre *Rainfed:* 2 qts / acre	*Dryland:* 16 - 24 fl oz / acre *Rainfed:* 16 - 24 fl oz / acre	*Dryland:* 16 fl oz / acre *Rainfed:* 16 fl oz / acre	*Rainfed:* 3 gal / acre	*Rainfed:* 2 qts / acre	*Rainfed:* 16 fl oz / acre

CORN — IRRIGATED

CROP STAGE	AT PLANTING ON-SEED			FOLIAR V3-V5	FERTIGATE V5 FORWARD		BROWN SILK R2		
PRODUCTS	IGNITION	ACCELERATE	REV UP	DRAFT	PENMAX	THROTTLE	TRACTION	TOP END	DRAFT
NPK ANALYSIS	9-20-3	5-0-0	N/A	0-0-3	N/A	N/A	21-0-0	5-0-0	0-0-3
PRODUCT TYPE	Macro	Micro	Bio	Bio	Soil Penetrant	Bio	Macro	Micro	Bio
RATE	5 gal / acre	2 qts / acre	16 - 24 fl oz / acre	16 - 24 fl oz / acre	2 qts / acre	32 fl oz / acre	3 gal / acre	2 qts / acre	16 fl oz / acre

CORN — SILAGE

CROP STAGE	AT PLANTING ON-SEED			FOLIAR V3-V5	FERTIGATE		BROWN SILK R2		
PRODUCTS	IGNITION	ACCELERATE	REV UP	DRAFT	PENMAX	THROTTLE	TRACTION	TOP END	DRAFT
NPK ANALYSIS	9-20-3	5-0-0	N/A	0-0-3	N/A	N/A	21-0-0	5-0-0	0-0-3
PRODUCT TYPE	Macro	Micro	Bio	Bio	Soil Penetrant	Bio	Macro	Micro	Bio
RATE	5 gal / acre	2 qts / acre	24 fl oz / acre	24 fl oz / acre	2 - 3 qts / acre	32 fl oz / acre	3 gal / acre	2 qts / acre	24 fl oz / acre

SOYBEANS

CROP STAGE	AT PLANTING ON-SEED			FOLIAR WITH LAST PASS OF GLYPHOSATE			FOLIAR R3-R4	
PRODUCTS	IGNITION	ACCELERATE	REV UP	FAST TRAC	DRIVE	DRAFT	FAST TRAC	DRAFT
NPK ANALYSIS	9-20-3	5-0-0	N/A	0-0-29	5-0-0	0-0-3	0-0-29	0-0-3
PRODUCT TYPE	Macro	Micro	Bio	Macro	Micro	Bio	Macro	Bio
RATE	1 gal / acre	2 qts / acre	24 fl oz / acre	2 gal / acre	2 qts / acre	16 fl oz / acre	2 - 3 gal / acre	16 fl oz / acre

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

RATE TABLES BY CROP

SUGAR BEETS

CROP STAGE	AT PLANTING			FERTIGATE		FOLIAR*	FERTIGATE 40 DAYS PRE-HARVEST		
PRODUCTS	IGNITION	ACCELERATE	REV UP	PENNMAX	THROTTLE	DRAFT	IGNITION PRO	ACCELERATE	RESTART
NPK ANALYSIS	9–20–3	5–0–0	N/A	N/A	N/A	0–0–3	8-19-3	5–0–0	N/A
PRODUCT TYPE	Macro	Micro	Bio	Soil Penetrant	Bio	Bio	Macro	Micro	Bio
RATE	3 gal / acre	2 qts / acre	24 - 32 fl oz / acre	2 - 4 qts / acre	1 - 2 qts / acre	16 - 24 fl oz / acre	3 gal / acre	2 qts / acre	24 fl oz / acre

*The DRAFT foliar option can help plants recover from stress events like drought, heat, chemical injury, or hail. Work with your growers to develop a plan ahead of time so you are both prepared and ready for a stress event before it happens.

TOMATO — PROCESSING

CROP STAGE	AT TRANSPLANT			FOLIAR WEEK 2				FERTIGATE WEEK 4			
PRODUCTS	IGNITION	ACCELERATE	REV UP	TRACTION	TOP END	RESTART	DRAFT	IGNITION PRO	IGNITION PLUS	PENNMAX	THROTTLE
NPK ANALYSIS	9–20–3	5–0–0	N/A	21–0–0	5–0–0	N/A	0–0–3	8-19-3	8-19-2	N/A	N/A
PRODUCT TYPE	Macro	Micro	Bio	Macro	Micro	Bio	Bio	Macro	Macro	Soil Penetrant	Bio
RATE	5 - 8 gal / acre	2 - 4 qts / acre	24 - 32 fl oz / acre	1 - 3 gal / acre	2 qts / acre	16 - 24 fl oz / acre	16 fl oz / acre	Combined 4 gal / acre		4 qts / acre	64 fl oz / acre

CROP STAGE	FERTIGATED							FOLIAR WEEK 11	
	WEEK 5	WEEK 6	WEEK 7		WEEK 8		WEEK 9		
PRODUCTS	LIQUA-JIP	IGNITION PRO	DRAFT	LIQUA-JIP	FAST TRACK	LIQUA-JIP	DRAFT	FAST TRACK	DRAFT
NPK ANALYSIS	N/A	8-19-3	0–0–3	N/A	0-0-29	N/A	0–0–3	0-0-29	0–0–3
PRODUCT TYPE	Salinity Management Treatment	Macro	Bio	Salinity Management Treatment	Macro	Salinity Management Treatment	Bio	Macro	Bio
RATE	5 gal / acre	4 gal / acre	64 fl oz / acre	3 gal / acre	5 gal / acre	3 gal / acre	64 fl oz / acre	1 - 2 gal / acre	24 fl oz / acre

WHEAT — DRYLAND

CROP STAGE	SEED TREATMENT	AT SEEDING			GREEN-UP	FLAG LEAF FOLIAR
PRODUCTS	REV UP	IGNITION	ACCELERATE	REV UP	TURBO	DRAFT
NPK ANALYSIS	N/A	9–20–3	5–0–0	N/A	0–0–3	0–0–3
PRODUCT TYPE	Bio	Macro	Micro	Bio	Bio	Bio
RATE	10 fl oz / 100 lbs of seed	1 - 3 gal / acre	2 qts / acre	16 fl oz / acre	12.8 fl oz / acre	16 fl oz / acre

WHEAT — IRRIGATED

CROP STAGE	SEED TREATMENT	AT SEEDING			GREEN-UP	FIRST IRRIGATION		FLAG LEAF FOLIAR		
PRODUCTS	REV UP	IGNITION	ACCELERATE	REV UP	TURBO	PENNMAX	THROTTLE	TRACTION	TOP END	DRAFT
NPK ANALYSIS	N/A	9–20–3	5–0–0	N/A	N/A	N/A	N/A	21–0–0	5–0–0	0–0–3
PRODUCT TYPE	Bio	Macro	Micro	Bio	Bio	Soil Penetrant	Bio	Macro	Micro	Bio
RATE	10 fl oz / 100 lbs of seed	3 - 5 gal / acre	2 qts / acre	16 - 24 fl oz / acre	12.8 - 16 fl oz / acre	2 qts / acre	32 fl oz / acre	3 gal / acre	2 qts / acre	16 fl oz / acre

Always jar test before mixing products in the tank to test compatibility. For more information on best tank mixes, please contact your ASN dealer or representative or refer to **page 87.**

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