

CROP  
NUTRIENT

# KICKSTARTER PULSE

**KICKSTART** YOUR PULSE CROP WITH THIS  
READY TO USE IN-FURROW FERTILITY PACKAGE

**KickStarter PULSE** is specially formulated for nutritional demands of pulse crops grown in our unique Pacific Northwest soils.

**KickStarter PULSE** (5-23-9) is an all-in-one, ready-to-use liquid fertilizer, formulated with M-Struct.

**KickStarter PULSE** is seed safe; low salt and chloride-free make KickStarter PULSE safe for sensitive seeds like large seeded vegetables and **pulse** crops.

**KickStarter PULSE** is efficient at delivering P, K, and Mo to meet early season demands for optimal root and nodulation development.

**KickStarter PULSE** is 80% highly available ortho-phosphate, giving crops strong roots early.



## The McGregor Company Starter Band Fertility for Chickpeas

Treatment	Yield <sup>^</sup> (Lb/a)	Lbs Over Check	Grade <sup>^</sup> (% 'A')
<b>KickStarter Pulse</b>	<b>2311</b> a	↑ <b>488</b>	67.2% bc
1 gal 11-37	1995 c	→ 172	67.1% bc
Untreated Check	1823 d		58.7% e
LOCATION MEAN	2083.5		66.8%
CV (%)	6.3%		
SD	132.0		4.8%

<sup>^</sup> Grouping done by Fishers LSD 95% confidence  
\* Research conducted by The McGregor Company, Colfax, WA 2017 using Sierra chickpeas. All treatments applied in furrow, direct contact with seed, at a total carrier volume of 6 gal/ac.

TMC Product Information



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**KICKSTART YOUR PULSE CROP W/ THIS READY TO USE IN-FURROW FERTILITY PACKAGE**

**Q: Will KickStarter PULSE impede my seeding process?**

A: KickStarter PULSE is a lower use rate, all-in-one liquid starter fertilizer that is ready to use with any standard seeding equipment with a liquid tank attachment. However, total volume of solutions in-furrow should always be brought up to a minimum of 5 gal/ac.

**Q: Why does soil pH matter to phosphorous?**

A: In soil pH levels under 6.0, phosphorous gets tied up by aluminum and iron. In soil pH levels above 8.0, phosphorous ties up with calcium. KickStarter PULSE provides phosphorous a place to bind that remains plant available.

**Q: Which delivery method is recommended?**

A: KickStarter PULSE should be applied in-furrow (close to the seed) as a starter fertilizer.

**Q: Is KickStarter PULSE safe to use with inoculated seed??**

A: Yes! KickStarter PULSE has been screened for Rhizobium compatibility. KickStarter PULSE's combination of organic acids and micronutrients provide a food source for bacteria.

**Q: Can KickStarter PULSE be used with liquid inoculum in-furrow?**

A: Yes! KickStarter PULSE has been screened and identified as safe for up to 8 hours in solution before application.

## DIRECTIONS FOR USE:

**KickStarter PULSE** can be applied in-furrow (directly on or close to seed) as a 'pop up' or starter fertilizer.

**KickStarter PULSE** is safe for salt and chlorine sensitive seeds like large seeded vegetables and pulses.

**KickStarter PULSE** needs to be applied at a minimum total volume of 5 gal/ac, using water, for optimal consistency in application.

**5-23-9**

### Guaranteed Analysis

Total Nitrogen (N).....	5.00%
4.00% Ammoniacal Nitrogen	
0.00% Nitrate Nitrogen	
1.00% Urea Nitrogen	
Available Phosphorous (P <sub>2</sub> O <sub>5</sub> )...	23.00%
Soluble Potash (K <sub>2</sub> O) .....	9.00%
Molybdenum (Mo).....	0.08%
Zinc (Zn).....	0.05%
0.05% Chelated Zinc	

**Derived from:** Urea, Ammonium Phosphate, Ammonium Sulfate, Potassium Hydroxide, Phosphoric Acid, Sodium Molybdate, Zinc EDTA

**Density: (68°F) 11.58 lbs/gal**

## USE RATES AND GUIDELINES:

Minimum Use Rate: 2.8 gal/acre

Maximum Use Rate: 6.0 gal/acre

**Recommended Use Rate: 2.8 gal/acre**

Nutrient	Min. Rate	Max. Rate
	Lbs per 2.8 gal/ac	Lbs per 6 gal/ac
<b>Total N</b>	<b>1.9</b>	<b>4.1</b>
<b>Phosphate</b>	<b>7.6</b>	<b>16.2</b>
<b>Potassium</b>	<b>3.2</b>	<b>6.9</b>
<b>Moly</b>	<b>0.03</b>	<b>0.06</b>
<b>Zinc</b>	<b>0.02</b>	<b>0.04</b>

