



## SURGE - PASTURE FERTILIZER

**Surge** is a natural, super concentrated foliar fertilizer for use on pastures and grassland. It is formulated with high grade macro and micro nutrients, plant extracts, amino acids, proteins, vitamins, minerals, complex carbohydrates and proprietary constituents. **Surge** can be used alone or in conjunction with inorganic fertilizers in any standard crop management program and can be soil or foliar applied. In addition, **Surge** offers significant benefits for producers who practice sustainable agriculture.

A single application of **Surge** natural pasture fertilizer, applied in early spring, will accelerate growth and enable early grazing. Generally, there is no requirement to fertilize native pastures. In cases where native pastures require fertilization, one application per season is sufficient. In certain cases, applying pasture nutrients alone can reduce or eliminate the need for herbicide and pesticide applications.

### **FACTS:**

Overgrazed pastures have undersized plants with under developed root systems and, as a result, they cannot uptake available soil nutrients. Nutrient deficiency can limit the growth of most pastures. Pastures that lack nutrients are constantly under stress, slow growing, unproductive, slow to recover from grazing, and produce poor quality feed for grazing animals. Nutrient applications optimize plant growth, increase yields and optimize distribution over the grazing season, even in areas that experience dry periods.

"Good pasture can be more nutritional and more economical than processed feeds"

### **APPLICATION METHODS:**

**Surge** natural pasture fertilizer can be soil or foliar applied with a conventional sprayer, or through direct injection into the irrigation system.

Grass responds vigorously to foliar applied pasture fertilizer and a well-planned fertilization program can double production. Foliar applications should be carried out in early spring when plants are 3 to 4 inches in height. Repeat after each cutting or grazing or as required.

TYPICAL APPLICATION RATE & INTERVALS			
Application Rate	1 <sup>st</sup> Application	2 <sup>nd</sup> Application	3 <sup>rd</sup> Application(Optional)
.75 to 1 Litre / Acre	Early Spring	After Each Cutting or Grazing	Late Fall

### **APPLICATION NOTES:**

- Do not apply immediately before or after a rainfall or sprinkler irrigation
- Additional applications can be made prior to or following periods of stress
- To optimize performance apply in late evening or early morning when humidity is high and leaf stomata are open
- Nozzles should be rotated to the back so the flow of material approaches the plant at a 90 degree angle to catch the underside of the plant leaf
- Use nozzles that produce a fine mist
- Performance may be reduced under drought conditions when plants are under heat stress

**\*\*Higher dilution rates are recommended for optimum coverage. For new, less dense foliage use 20 Litres of water / acre. For mature foliage use 40 Litres of water/ acre.**

Application rates may vary with environmental conditions, soil fertility, grazing history, management practices and additional inputs applied. **Surge** natural pasture fertilizer is chemical free and does not require a withholding period.

### **SAFETY:**

**Surge** is produced in accordance with NOSB (National Organic Standards Board) guidelines. The materials used in the production process are derived from naturally occurring and sustainable sources and are consistent with organic principals and the National List of Allowed Substances. **Surge** does NOT contain synthetic chemicals, animal components, and animal by products, manure or manure by-products. **Surge** is environmentally safe and is not harmful to animals, plants and humans.

### **COMPLIANCE:**

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3, 710.2(e) and 720.3(c); and
- c) Sections 5 and 13, reference 42FR64583
- d) Does not contain marine pollutants as defined in 49 CFR 171.8.

### **STORAGE & HANDLING:**

Do **NOT** freeze. Store in a cool location away from direct sunlight - No special handling required

### **PACKAGING:**

2 Litre Jug  
20 Litre (5 gallon) HDPE Pail  
205 Litre (45 gallon) Barrel  
1000 Litre Tote