



# Lokomotive®

## 2-0-25

A NITROGEN AND POTASSIUM FERTILIZER SOLUTION



**GUARANTEED ANALYSIS**

Total Nitrogen (N).....	2.00%
2.00% Urea Nitrogen	
Soluble Potash (K <sub>2</sub> O).....	25.00%

Derived From: Urea and Potassium Acetate

F1548

FOR COMMERCIAL OR PROFESSIONAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN**



## WARNING

Avoid prolonged or repeated contact with eyes, skin and clothing. Chemical goggles or a full face shield should be worn. To protect skin wear appropriate protective equipment, such as rubber or plastic aprons, rubber gloves and boots. Avoid breathing mist or vapor. Keep containers closed. Wash thoroughly after handling. May cause gastrointestinal distress if swallowed.



0 21077 77037 5

Density: 10.81 lbs/gallon @ 68° F.

Liquid Measure: 2.5 gallons (9.46 liters)

Net Weight: 27.02 lbs (12.25 kg)

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Lokomotive\_E2215

## READ LABEL CAREFULLY

### PRECAUTIONARY STATEMENTS

Avoid prolonged or repeated contact with eyes, skin and clothing. Chemical goggles or a full face shield should be worn. To protect skin wear appropriate protective equipment, such as rubber or plastic aprons, rubber gloves and boots. Avoid breathing mist or vapor. Keep containers closed. Wash thoroughly after handling. May cause gastrointestinal distress if swallowed.

### FIRST AID

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. **If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

### HANDLING AND STORAGE

Minimize skin exposure. Store mini-bulks and smaller containers out of the sun in an area of moderate temperature. Do not re-use containers. Avoid containers, piping or fittings made of copper-containing alloys or galvanized metal. Do Not store at temperatures below 0° F, as crystallization may occur. Dispose of containers in accordance with local regulations and requirements. **IN CASE OF SPILL:** Contain spill and maximize recovery. Keep spill out of water sources. Exercise caution in area of spill for slippery conditions. Dispose of spilled material in accordance with regulatory requirements

### GENERAL INFORMATION

**LoKomotive** is a chlorine-free, clear liquid solution, containing 2% N and 25% potash (K<sub>2</sub>O). **LoKomotive** increases stress tolerance and root growth. Potassium Acetate is quickly absorbed by the root and leaf. **LoKomotive** may be applied by sprinkler or flood irrigation. It may be blended with other fertilizers or applied as a foliar treatment on selected crops. When used as a foliar fertilizer, **LoKomotive** should first be diluted with water before applying. Blends of **LoKomotive** should not be acidified below a pH of 6.0. **LoKomotive** is compatible with urea solutions in any ratio. When blending with micronutrients and pesticides, trial blends should be conducted before beginning large scale mixing. When mixing other liquid fertilizers and/or pesticides with **LoKomotive**, the blend sequence should be as follows: water, pesticide, **LoKomotive** and/or other fertilizer. **NOTE:** When used as directed this product does not supply all nutrients required by plants and is to supplement a soil fertility program based on soil tests.

### GENERAL APPLICATION AND USE RECOMMENDATIONS

**LoKomotive** may be applied to a wide variety of agricultural crops. Potassium requirements for most crops increase dramatically during periods of rapid growth and fruit development. Application of **LoKomotive** should be made based on soil and/or plant tissue analysis for potassium.

### FOLIAR FERTILIZER APPLICATION

Application rates are only for the crops listed below. For recommendations regarding crops not listed, contact your local fluid fertilizer dealer or your Loveland Products, Inc. representative. **LoKomotive** may be applied by ground or air. By air, apply 2 to 5 quarts of **LoKomotive** per acre in 3 to 10 gallons of water spray solution. For ground application: apply 2 to 6 quarts of **LoKomotive** per acre. **Alfalfa:** Apply at crown green up or on regrowth after cutting. **Artichoke:** 2 to 4 quarts, starting at bud formation. **Brassicas:** 2 to 8 quarts, starting at bottom establishment. **Canola:** 2 to 4 quarts per acre at bud to bolting stage. **Corn:** Apply **LoKomotive** just prior to tasseling and second application in 7 to 10 days. **Cotton:** 0.5 to 2 gallons, early bloom and repeat at 7 to 10 day intervals for up to 4 applications. **Cucurbits:** 2 to 8 quarts, starting at bud formation, fruit establishment – repeat at 10 to 14 day intervals as needed. **Dry Beans:** 0.5 to 1 gallon, early bloom. **Grapes (both table and wine):** 2 to 8 quarts, starting at fruit set through veraison. **Leafy Vegetable (Head Lettuce, Leaf Lettuce, Romaine, Spinach, etc):** 1 to 6 quarts, starting at thinning. **Peas and Lentils:** Apply during late bud to 10% bloom. **Potatoes:** 2 to 3 gallons, tuber initiation, apply second application in 2 to 3 weeks and third application at tuber bulking. **Rice:** 0.5 to 2 gallons, panicle initiation. **Small Fruit: (Blueberries, Caneberries, Blackberries, Raspberries):** 2 to 8 quarts, starting at fruit set. **Trees and Vines: Cherries:** Apply 2 to 8 quarts at fruit set, subsequent applications, as needed. **Small Grains:** Apply **LoKomotive** at tillering to early boot stage. **Solanaceas: (Tomato, Peppers, Tomatillos, Eggplant):** 2 to 8 quarts, starting at fruit formation – apply every 7 to 14 days as needed. **Soybeans:** 0.5 to 2 gallons, early pod development. **Strawberries:** 2 to 8 quarts every 10 to 14 days starting at fruit production. **Sugar Beet:** 0.5 to 2 gallons, prior to row canopy closing. **Tobacco:** Apply **LoKomotive** just prior to tasseling and

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second application in 7 to 10 days (**Do not use with alcohol-based sucker control products**). **Tree Nuts, Crop Group 14:** Apply **LoKomotive** at 2 to 6 quarts per acre in a minimum of 100 gallons of water spray solution. **Apples, Apricots:** Apply **LoKomotive** at 2 to 6 quarts per acre in a minimum of 100 gallons of water spray solution. Begin application at first full leaf and apply as needed during the growing season. **Citrus, Crop Group 10:** Apply **LoKomotive** at 2 to 6 quarts per acre in a minimum of 100 gallons of water spray solution. Begin application at first full leaf and apply as needed during the growing season. For concentrated sprays of less than 100 gallons per acre, reduce the rate of **LoKomotive** to stay within the recommended solution ratio (i.e., 50 gallons of water per acre equals 1 to 3 quarts of **LoKomotive** per acre). **Vines:** Begin 2 weeks after bloom. Apply 2 to 4 quarts of **LoKomotive** per acre in a minimum of 50 gallons of water. Repeat treatment in 7 to 10 days.

**FERTIGATION FLOOD AND FURROW IRRIGATION: Trees and Vines:** Apply 10 to 15 gallons of **LoKomotive** per acre per application beginning at full leaf, schedule as needed. **Vegetables and Row Crops:** Apply 10 to 15 gallons of **LoKomotive** per acre per application, make second application based on crop requirements.

**SPRINKLER IRRIGATION - Trees (Under):** Apply 5 to 15 gallons per acre per application every 10 to 14 days based on crop requirements. **Trees (Overhead):** Apply 2 to 10 gallons per acre based on soil levels and on crop requirements. **Vines:** Apply 3 to 5 gallons per acre per application every 10 to 14 days based on crop requirements. **Vegetable and Row Crops:** Beginning at the 3rd to 4th leaf stage, apply 3 to 10 gallons per acre per application every 10 to 14 days based on crop requirements. After injection, allow enough irrigation time to rinse the plants of any residual fertilizer.

**CENTER PIVOT - Vegetable and Row Crops:** Apply 3 to 5 gallons of **LoKomotive** per acre per application as needed based on crop requirements. When mixing **LoKomotive** or any liquid fertilizer with pesticides always keep agitators running during filling and spraying operations. Failure to maintain agitation may cause separation of products resulting in uneven spray application. Sprinkler application of **LoKomotive** and other liquid fertilizers over an established crop may cause foliar injury to a crop if: injection period is short enough to cause an excessive amount of fertilizer to accumulate on the leaves, temperatures are above 90° F and humidity less than 30%, fertilizer rates are higher than recommended, irrigation pump breaks down during or immediately after injecting fertilizer, and/or any combination of these conditions. Crop injury may result from unusual weather conditions, failure to follow label directions, or improper application practices all of which are out of control of the manufacturer or seller. The directions on this label are believed to be reliable and should be followed carefully.

**TURF:** Apply with 1 to 2 gallons of water per 1000 sq. ft. For best results, apply early in the morning or late evening and allow to dry on the turf for 3 to 6 hours before irrigation. Turf can be mowed anytime after the first irrigation.

Ounces per 1000 Sq. Ft.	Gallons per Acre	Pounds K <sub>2</sub> O per 1000 Sq. Ft.
7.4	2.5	0.15
14.8	5.0	0.30
22.2	7.5	0.45
29.6	10.0	0.60

## NURSERY AND ORNAMENTALS

**Foliar Feeding:** Rate: 4 quarts, mix with 100 gallons of water and spray to run off. **Soil Drench:** Rate 6 quarts, dilute with 100 gallons of water and apply sufficient amount to moisten the root zone. **Transplanting:** Rate 6 quarts, dilute with 100 gallons of water and apply to root ball or back-fill at the time of planting. Apply 1 gallon of solution per 1 inch of trunk caliper.

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.regulatory-info-lpi.com/>  
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