Environmental conditions may affect flowability of the product. Regularly use before expiration date.

Apply granular inoculant directly to the furrow. Appliquez l’inoculant granulaire directement au sillon.

Store bags flat, keeping off of floor (i.e. pallet) to avoid direct contact with solid, sticky surfaces.

Do not mix granular inoculant with granular pesticides or fertilizers during application.

Remove any unused granules from the hopper box at the end of each day of planting.

Performance and convenience / Pratique et efficace

Technologically advanced carrier / Support issu d’une nouvelle technologie

Easy flow formulation / Formule favorisant l’écoulement

Performance and convenience / Pratique et efficace

(Additional information on back panel / Informations supplémentaires au verso)

Registration NUMBER 2019175A Fertilizers Act
NUMERO D’enregistrement 2019175A Loi sur les engrais

WARRANTY: Loveland Products, Inc. warrants this product to perform as advertised in the literature. This warranty is limited to the buyer of the product. Loveland Products, Inc. shall not be liable for any incidental or consequential damages, including lost profits. This warranty gives you specific legal rights. You may have other rights which vary from state to state.

For new operating aid not represented on application rate tables, please contact your Loveland representative for rates.

EQUIPMENT CALIBRATION:
This solid core granular inoculant is similar in particle size to some herbicide granules. Use a metering system that is capable of delivering 0.1 - 0.7 g/ha (4 - 24 lb/ac) when calibrated to standard flow. Flow rate of 0.4 g/h (24 lbs/season) means successful delivery of 40 kg (88 lbs) of inoculant per hour (44 percent spherical bead).

STORAGE/PRECAUTIONS:
• Store granular inoculant in a cool (15 - 25 °C / 59 - 77 °F) dry place and above from pesticides and other chemicals.
• Do not leave this granular inoculant on direct contact with solid, sticky surfaces.
• Use before expiration date.
• Family granular inoculant is toxic to the human. This product must not be mixed at a depth that is less than the planting depth of the crop.
• Do not mix granular inoculant with granular pesticides or fertilizers during planting.
• Remove any around granules from the hopper box at the end of each day of planting. Do not allow granules to be in hopper overnight.

PRECAUTIONS:
When required, protective equipment such as a respirator, a ventilation mask, and protective clothing are provided by equipment manufacturer.

FIRST-AID MEASURES:
If inhaled: Remove from exposure at once. Notify doctor if necessary.
If in eyes: Wash immediately with plenty of water. If on skin: Wash thoroughly with soap and water.
If swallowed: Do not induce vomiting. Call doctor immediately.

GHS: The product does not require a hazard warning label in accordance with GHS criteria.

GUARANTEE: Loveland Products, Inc. guarantees this product to perform as advertised in the literature. This guarantee is limited to the buyer of the product. Loveland Products, Inc. shall not be liable for any incidental or consequential damages, including lost profits. This guarantee gives you specific legal rights. You may have other rights which vary from state to state.

STOCKAGE/PRÉCAUTIONS:
• Store the inoculant granules in an end-11 - 15 °C (50 - 60 °F) dry place and above other chemicals.
• Do not mix granular inoculant with granular pesticides or fertilizers during application.
• Do not store the granular inoculant directly to the fabric. The product must not be applied to a point that is not the point of application of the granules.
• No mixing of the inoculant granule with pesticides or the equipment is performed.

PRECAUTIONS:
Wear protective gloves, protective clothing, a respirator, protective glasses, and safety glasses with side shields. Close work clothing. Do not drink or smoke while using. Wash hands and close work clothing. Do not eat, drink or smoke while using.

Premiers secours:
• Lorsque avalé : ne pas provoquer le vomissement. Appeler un médecin.
• Lorsque en contact avec les yeux : Laver à fond avec de l’eau et du savon. Appeler un médecin.
• Lorsque inhalé : respectez les mesures de sécurité et les livres de l’utilisateur.

WARRANTY: Loveland Products, Inc. garantit ce produit en vertu de l’article 5 de la Loi sur les engrais. Cette garantie est limitée à l’utilisateur du produit. Loveland Products, Inc. ne sera pas responsable de tout dommage mineur ou consécutif résultant de l’utilisation de ce produit. Cette garantie vous accorde des droits juridiques spécifiques. Vous pouvez avoir d’autres droits qui varient d’un état à l’autre.

For new operating aid not represented on application rate tables, please contact your Loveland representative for rates.

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• Lorsque inhalé : respectez les mesures de sécurité et les livres de l’utilisateur.

Yves Joly, Pesticide Safety Coordinator

Loveland products are a registered trademark of Loveland Products, Inc.

Loveland Products, Inc. 895 Dutchess Office Park, P.O. Box 1341, La Grange, NY 12651 Phone: 800-822-2270 Fax: 800-866-0817

22,68 kg (50 lb)
1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:
TRADE NAME: ESTABLISH® XL GRANULAR

1.2 RECOMMENDED USE: INOCULANT FOR PEA AND LENTIL

1.3 DISTRIBUTED BY:
LOVELAND PRODUCTS CANADA, INC.
789 DONNYBROOK DRIVE • DORCHESTER, ONTARIO N0L 1G5

1.4 24 Hour Emergency Phone: (Chemtrec): 1-800-424-9300 (Toll Free) - Additional Emergency Phone 1-800-561-8273
Loveland Technical Service: 1-800-328-4678

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Not classified

2.2 Label elements
None required

Signal word: Not required.
Hazard Statement: Not required.

Precautionary
Statement: None required.

2.3 Other hazards
None known

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhizobium leguminosarum biovar viceae Strain 1435</td>
<td>14808-60-7</td>
<td>8 x 10^7 viable cells CFU/g 1.0 – 5.0</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Ingestion: Call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Contact may cause eye irritation. Not expected to present a significant hazard under anticipated conditions of normal use. This product contains beneficial microorganisms. Exposure to very high levels of airborne microbial spores may result in very rare respiratory impairments or cause an allergic reaction in sensitized individuals. This product may cause adverse effects to individuals allergic to molds and/or fungi and should not be used by immunocompromised and/or immunosuppressed individuals.

4.3 Immediate Medical Attention and Special Treatment

Treatment: NOTES TO PHYSICIAN: There is no specific antidote. Treat symptomatically.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273
Take container, label or product name and Fertilizers Act Registration Number with you when seeking medical attention.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:


5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: Accumulation of airborne dusts may present an explosion hazard in the presence of an ignition source. Thermal decomposition generates: oxides of carbon and oxides of nitrogen.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapours and dusts and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: Prevent entry into sewers and public waters. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses. Notify local or provincial authorities if liquid enters sewers or public waters.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Collect all waste in suitable and labelled containers and dispose according to local legislation. Never return spills to original containers for re-use.
7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:
Avoid inhalation of dusts, vapours / spray and contact with eyes, skin and clothing. Do not breathe dusts, mist or vapour. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

Avoid dust formation. Dust can form explosive mixture with air. Prevent electrostatic charge – sources of ignition should be kept well clear – fire extinguishers should be kept handy.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:
Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, heat sources, extremely high or low temperatures. Protect against freezing. Protect from temperatures below 5 °C. Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time. Protect from temperatures above 25 °C. Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time. Keep container closed when not in use. Keep away from food, drink and animal feeding stuffs.

Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) TLVs

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, crystalline, α-quartz</td>
<td>TWA</td>
<td>0.025 mg/m³ R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(measured as inhalable fraction of the aerosol)</td>
</tr>
</tbody>
</table>

U.S. Workplace Exposure Level (OSHA) PELs

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, crystalline, α-quartz</td>
<td>TWA</td>
<td>0.05 (Respirable dust)</td>
</tr>
</tbody>
</table>

Biological limit values

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
<th>Value</th>
<th>Specimen</th>
</tr>
</thead>
<tbody>
<tr>
<td>No listings</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2 EXPOSURE CONTROLS:

Engineering Measures
Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove contaminants. The use of chemical-resistant gloves is recommended when handling undiluted product. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapours, use suitable respiratory equipment approved by MSHA/NIOSH. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with national or provincial standards. Wear air supplied respiratory protection if exposure concentrations are unknown.
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Solid.
ODOUR: Faint.
ODOUR THRESHOLD: No data available.
COLOUR: White to grey.
pH: ~ 5 - 7.
MELTING POINT / FREEZING POINT: Not applicable.
BOILING POINT: Not applicable.
FLASH POINT: > 93 °C.
FLAMMABILITY (solid, gas): No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.
VAPOUR PRESSURE: No data available.
SOLUBILITY: Insoluble.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.
AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available.
VISCOSITY: No data available.
SPECIFIC GRAVITY (Water = 1): Not applicable.
DENSITY: 200 – 1200 kg/m³.

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY
Stable

10.2 CHEMICAL STABILITY
Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS
No reactions known under normal use conditions. Will not polymerize.

10.4 CONDITIONS TO AVOID
Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electrostatic discharge. Avoid prolonged storage. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

10.5 INCOMPATIBLE MATERIALS

10.6 HAZARDOUS DECOMPOSITION PRODUCTS
None known.

11. TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE
Primarily ingestion and inhalation, but may include eye contact, skin contact.
LC₅₀ (rat): > 5,000 mg/L – ATE (dust).
LD₅₀ Oral (rat): > 5,000 mg/kg - ATE.
LD₅₀ Dermal (rabbit): > 5,000 mg/kg - ATE.
Acute Toxicity Estimates: No data available.
Eye Irritation (rabbit): Not irritating.
Skin Irritation (rabbit): Not irritating.
Inhalation: No data available.
Ingestion: No data available.
Specific Target Organ Toxicity: No data available.
Aspiration: No data available.
Skin Sensitization (guinea pig): Not a sensitizer
Carcinogenicity: None listed.
Germ Cell Mutagenicity: No data available.
Interactive Effects: None known.
12  ECOLOGICAL INFORMATION

12.3 ECOTOXICITY
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. This product is not intended for use in aquatic settings.

Ecotoxicological Data

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
</tr>
</tbody>
</table>

Drift or runoff may adversely affect non-target plants.
Do not apply directly to water.
Do not contaminate water when disposing of equipment wash water.
Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY
Biodegradability: Biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL
Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL
No data available.

12.5 OTHER ADVERSE EFFECTS
Assessment: No data available.

13  DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS
Do not reuse containers for any purpose. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal. For disposal, the container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse the product container for any other purpose.

14  TRANSPORT INFORMATION

14.3 LAND TRANSPORT
TDG Shipping Description: NOT REGULATED.

15  REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

<table>
<thead>
<tr>
<th>NFPA &amp; HMIS Hazard Ratings:</th>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Health</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>0 Flammability</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>0 Instability</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>3 High</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>4 Severe</td>
<td></td>
<td>PPE</td>
</tr>
</tbody>
</table>

SARA Hazard Notification/Reporting
SARA Title III Hazard Category: Immediate Fire Sudden Release of Pressure
Delayed Reactive

Reportable Quantity (RQ) under U.S. CERCLA: Not listed.
SARA, Title III, Section 313: Not listed.
RCRA Waste Code: Not applicable.
CA Proposition 65: Not applicable.

WHMIS [Canada]: D2A: Materials Causing Other Toxic Effects – Very toxic material.

T
16 OTHER INFORMATION

SDS STATUS: New.
PREPARED BY: Product Stewardship and Regulatory Affairs
REVIEWED BY: Safety, Health and Environment

FERTILIZERS ACT REG. NO.: 2019175A

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