

# SAFETY DATA SHEET

SDS NUMBER: XXXXXXXXXXX-19-LPI **SDS REVISIONS: NEW** 

# **DYNA-START® X2 PEANUT INOCULANT**

**DATE OF ISSUE: 08/05/19 SUPERSEDES: NEW** 

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

### **IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

1.1 PRODUCT IDENTIFIER:

**DYNA-START® X2 PEANUT INOCULANT** 

TRADE NAME: 1.2 RECOMMENDED USE: IN-FURROW INOCULANT FOR PEANUTS

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24 Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565 - Product Information: 1-888-574-2878 (LPI-CUST) U.S. Coast Guard National Response Center: 1-800-424-8802

# **HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Not classified as hazardous

#### 2.2 Label elements

None required

Signal word: NONE Hazard Statement: Not required.

Precautionary

Statement: Not required.

(Prevention):

Precautionary

Statement: Not required.

(Response):

Precautionary

Statement:

(Storage): Not applicable.

Precautionary

Statement:

(Disposal): Not required.

### 2.3 Other hazards

None known

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### 3. COMPOSITION, INFORMATION ON INGREDIENTS

#### 3.1 Substances

### 3.2 Mixtures

Classification according to 29 CFR 1910.1200 - Not classified as hazardous under OSHA

Chemical Name: CAS No. Concentration

Bradyrhizobium spp. bacterium not available <1 w/w (2x10° CFU/ml)
\*Aqueous carrier n/a >99 w/w

### 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

If in eyes: 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 center or doctor for treatment advice.

If on skin or clothing: Take of contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

If swallowed: Immediately call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do

so by the poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth

to an unconscious person.

# 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Ingestion: May be harmful if swallowed. Eye contact: May cause irritation. Skin contact: Prolonged or repeated skin contact

may cause irritation. Inhalation: May cause coughing due to irritation or initiate asthmatic responses in certain prone

individuals. Contains microorganisms which may cause sensitizing reactions in some individuals.

## 4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565

Take container, label or product name with you when seeking medical attention.

NOTES TO PHYSICIAN: Treat symptomatically. Consideration should be given to the possibility that overexposure to materials other than this

product may have occurred. No specific antidote is available. Probable mucosal damage may contraindicate the use of gastric

lavage.

### 5. FIRE FIGHTING MEASURES

# 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol foam, foam,

water spray or fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: Unknown materials may be formed in a fire situation.

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.

<sup>\*</sup>Ingredients not specifically listed are non-hazardous or are to be considered proprietary or confidential business information per 29 CFR 1910.1200(i)

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#### **ACCIDENTAL RELEASE MEASURES**

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation.

Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

**Environmental Precautions:** Do not apply or allow to enter soil or sub-soil. Do not allow to enter surface water or drains. Do not

contaminate water when disposing of equipment washwaters or rinsate.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Absorb in vermiculite, dry sand or earth and place into containers. Recycle if possible. After removal flush contaminated area thoroughly with water.

Small Spills: Avoid formation of dust or spray. Wipe up with absorbent material (e.g. cloth, fleece).

Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

### **HANDLING AND STORAGE**

#### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Avoid contact with eyes. Wash hands before eating, drinking, chewing gum, using tobacco or using the

toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before

removing. As soon as possible, wash thoroughly and change into clean clothing.

### 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

The active ingredient is a living organism and requires specific storage conditions to maintain product viability and performance. Do not store product in areas where freezing will occur, or where temperatures will exceed 72 °F (22 °C). Store inoculants in a cool, dry place out of direct sunlight and wind. Open

package only when ready to use. Do not store opened bags of this product.

## **EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### 8.1 CONTROL PARAMETERS:

### **OCCUPATIONAL EXPOSURE LIMITS**

### U.S. Workplace Exposure Level (ACGIH) TLVs

Components Value Type

No listings

### U.S. Workplace Exposure Level (OSHA) PELs

Value Components Type

No listings

### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components Specimen Value

No listings

## **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: Long-sleeved shirt and long pants. Chemical-resistant gloves, such as polyethylene or polyvinylchloride. Shoes plus

socks

Respiratory Protection: Dependent on job function. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved air-purifying

respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air

respirator if exposure concentrations are unknown.

DATE OF ISSUE: 08/05/19 SUPERSEDES: NEW

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Viscous liquid

ODOR: Mild.

ODOR THRESHOLD: No data available. COLOR: No data available. Brown translucent.

pH: 6 – 8

MELTING POINT / FREEZING POINT: No data available.
BOILING POINT: No data available.

FLASH POINT: Considered non-combustible.

FLAMMABILILITY (solid, gas): Not applicable.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE: No data available.

SOLUBILITY: Miscible.

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: (log Kow): No data available.

AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available.
VISCOSITY: (kinematic): No data available
SPECIFIC GRAVITY (Water = 1): No data available
DENSITY: No data available

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 data available. Will not polymerize.

### 10.4 CONDITIONS TO AVOID

No data available.

### 10.5 INCOMPATIBILE MATERIALS

Acids, bases, concentrated fertilizer liquids, pesticides, food, drink and animal feeding stuffs.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

None known.

### 11 TOXICOLOGICAL INFORMATION

### 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Inhalation. Skin contact. Ingestion.

LC<sub>50</sub> (male rat): No data available LD<sub>50</sub> Oral (male rat): No data available LD<sub>50</sub> Dermal (rat): No data available Acute Toxicity Estimates: No data available. Skin Irritation (rabbit): May cause irritation. Eye Irritation (rabbit): May cause irritation.

Specific Target Organ Toxicity: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer Carcinogenicity: No data available.

Germ Cell Mutagenicity: No data available.

Interactive Effects: None known

DATE OF ISSUE: 08/05/19 SUPERSEDES: NEW

12	ECOL	OCICAL	INFORMATIO	N

#### 12.3 ECOTOXICITY

No data available. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Ecotoxicological Data** 

Species Test Results

No listings

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: No data available

### 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

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at <a href="http://www.acrecycle.org/">http://www.acrecycle.org/</a>. Do not contaminate water, food or feed by storage or disposal.

#### 14 TRANSPORT INFORMATION

### 14.3 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED

U.S. Surface Freight Classification: BACTERIA, SEED OR SOIL INOCULATING (NMFC 20380; CLASS: 60)

### 15 REGULATORY INFORMATION

## 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: NFPA HMIS

Health 0 Health 0 0 Least Flammability Slight Flammability Instability 2 Moderate 0 Reactivity 3 PPE

High C F Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate N Fire N Sudden Release of Pressure N Peactive N

4

Reportable Quantity (RQ) under U.S. CERCLA: Not listed.

SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: Not listed

DATE OF ISSUE: 08/05/19 SUPERSEDES: NEW

### 16 OTHER INFORMATION

SDS STATUS: New.

PREPARED BY: Product Stewardship and Regulatory Affairs

**REVIEWED BY:** Safety, Health and Environment

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