# SAFETY DATA SHEET

SDS NUMBER: 1000690314-15-LPI SDS REVISIONS: NEW DATE OF ISSUE: 11/05/15

**DYNA-START® PBC** 

SUPERSEDES: NEW

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

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER: TRADE NAME:

DYNA-START® PBC

1.2 RECOMMENDED USE: SOYBEAN INOCULANT + EXTENDER LIQUID

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

# 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Acute Toxicity - Oral Category 4 H302

### 2.2 Label elements



Signal word: WARNING

Hazard Statement: H302 – Harmful if swallowed.

Precautionary

Statement: P264 – Wash hands and face thoroughly after handling. (Prevention): P270 – Do not eat, drink or smoke when using this product.

Precautionary Statement:

(Response): P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

Precautionary Statement:

(Storage): P401 – Store in a cool, dry place, and out of direct sunlight. Do not allow product to freeze.

### 2.3 Other hazards

None known

## COMPOSITION. INFORMATION ON INGREDIENTS

#### 3.1 Substances

#### 3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name: CAS No. Classification Concentration

[%] 1x10<sup>10</sup> cfu/mL Bradyrhizobium japonicum bacterium n/a Oral tox. 4; H302

(in liquid medium)

Ingredients not precisely identified are proprietary or non-hazardous.

### **FIRST AID MEASURES**

### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 Eye contact:

minutes, then continue rinsing eye. Call a poison control center 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 center or

doctor for treatment advice.

Ingestion: 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 a poison control centre or doctor. Do not give anything by mouth

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to an unconscious person.

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 center or doctor for treatment advice.

# 4.2 Most Important Symptoms and Effects, Acute and Delayed

Ingestion: Harmful if swallowed. Symptoms:

Inhalation: May cause respiratory irritation, especially in people sensitive to molds and/or fungi.

Eyes: May cause eye irritation. Skin: May cause skin irritation.

# 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.

Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

# **FIRE FIGHTING MEASURES**

# 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO2), alcohol foam, foam, water spray or fog. Do not use water jet as this will spread the fire.

# 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, hazardous by-products can be released, including oxides of carbon and hydrocarbons.

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 vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation.

Wear suitable protective clothing.

**6.2 ENVIRONMENTAL PRECAUTIONS** 

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter

drains, sewers, or watercourses.

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. After removal flush

contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

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Remove residual contamination.

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 mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe

mists or vapor. 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.

### 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Inoculants are live organisms. Store in a cool, dry place, and out of direct sunlight. 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

Components Type Value

Not listed TWA

U.S. Workplace Exposure Level (OSHA) PELs

Components Type Value

Not listed

**Biological limit values** 

**ACGIH Biological Exposure Indices** 

Components Value Specimen

TWA

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. Shoes plus socks.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as

MSHA/NIOSH approved respirator with approved filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are

unknown.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1** APPEARANCE : Liquid ODOR: Mild.

ODOR THRESHOLD: No data available. COLOR: Yellow-brown.

pH: 6-8

MELTING POINT / FREEZING POINT: No data available.

BOILING POINT: 216°F (102°C)
FLASH POINT: Does not flash.
FLAMMABILILITY (solid, gas): No data available.

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

VAPOR PRESSURE: No data available.

SOLUBILITY: Soluble

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): No data available.

BULK 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

Will not polymerize.

## **10.4 CONDITIONS TO AVOID**

Direct sunlight. Heat sources. High or low temperature extremes.

# 10.5 INCOMPATIBILE MATERIALS

Acids. Bases. Oxidizing agents. Reduxcing agents. Disinfectants. Fungicides. Biocides.

# 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include but are not limited to fume generation, oxides of carbon, and hydrocarbons.

### 11 TOXICOLOGICAL INFORMATION

## 11.3 LIKELY ROUTES OF EXPOSURE

Ingestion. Eye contact. Skin contact. LC<sub>50</sub> (rat): No data available. LD<sub>50</sub> Oral (rat): >5,000 mg/kg LD<sub>50</sub> Dermal (rabbit): >2,000 mg/kg Acute Toxicity Estimates: No data available.

Acute Toxicity Estimates: No data available. Skin Irritation (rabbit): Causes skin irritation. Eye Irritation (rabbit): Causes serious eye irritation.

Specific Target Organ Toxicity: Single exposure: 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

# 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

Species Test Results

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No data available

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** 

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

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4 Severe

**SARA Hazard Notification/Reporting** 

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

Delayed N Reactive N

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

# 16 OTHER INFORMATION

SDS STATUS: New.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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This is a co-pack product which also contains CONSENSUS® SEED TREATMENT in separate packaging. Refer to the Consensus® SDS (safety data sheet) for additional safety information.

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