SAFETY DATA SHEET

SDS NUMBER: 000856-16-LPI SDS REVISIONS: SEC. 2 DATE OF ISSUE: 01/14/16

BOLL BUSTER® SUPERSEDES: 01/12/15

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: BOLL BUSTER®

1.2 RECOMMENDED USE: FOR COMMERCIAL OR AGRICULTURAL USE ONLY

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

Skin Corrosion/Irritation Category 1B H314

#### 2.2 Label elements



Signal word: DANGER

Hazard Statement: H314 – Causes severe skin burns and eye damage.

Precautionary

Statement: P260 – Do not breathe dusts/fume/gas/mist/vapors/spray. (Prevention): P264 – Wash hands and face thoroughly after handling.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary

Statement: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(Response): P302+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 – Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 – Immediately call a POISON CENTER or doctor/physician. P321 – Specific treatment (see Note to Physician on the product label).

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy

to do. Continue rinsing.

Precautionary

Statement: (Storage): P405 – Store locked up.

Precautionary Statement:

(Disposal): P501 – Dispose of contents/container in accordance with local, state, and federal regulations.

## 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

 Chemical Name:
 CAS No.
 Concentration [%]

 Ethephon
 16672-87-0
 75.37 – 80.03

 \*Other ingredients
 n/a
 21.63 – 22.97

## 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

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to an unconscious person.

## 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Eyes: Causes irreversible eye damage and skin burns.

# 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 SUBSTANCÉ OR MIXTURE:

Specific Hazards During Firefighting: Oxides of carbon and other unknown materials may be formed in a fire situation.

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.

<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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### 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: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below

the mean high water mark. Do not contaminate water when disposing of equipment washwaters or

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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. After removal flush

contaminated area thoroughly with water.

Small Spills: 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.

#### 7. HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: 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

Value

possible, wash thoroughly and change into clean clothing.

#### 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Store in original container only. Keep container closed when not in use. Do not store near food or

feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic

absorbent. Combustible. Do not store near heat or open flame.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **8.1 CONTROL PARAMETERS:**

**OCCUPATIONAL EXPOSURE LIMITS** 

U.S. Workplace Exposure Level (ACGIH) TLVs

Components Type Value

No listings TL

U.S. Workplace Exposure Level (OSHA) PELs

Components Type
No listings TLV

**Biological limit values** 

**ACGIH Biological Exposure Indices** 

Components Value Specimen

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

MSHA/NIOSH TC-84A with NIOSH equipped N, R, or P class filter media. 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: Slight.

ODOR THRESHOLD: No data available.

COLOR: Colorless to pale yellow.

pH: 1.6 – 1.7 (1% solution).

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: 0.00006 mmHg.

SOLUBILITY: Soluble.

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 on data available.

SPECIFIC GRAVITY (Water = 1): 1.30 g/ml

DENSITY: 10.85 lbs./gal / 1.30 kg/L

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**

Decomposes at temperatures above 330 °F / 170 °C. Decomposes at pH above 3.

## 10.5 INCOMPATIBILE MATERIALS

Oxidizing agents and alkaline materials. Corrosive to iron, mild steel, aluminum, and copper.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen chloride and oxides of carbon. Reaction to alkaline materials causes evolution of ethylene gas.

### 11 TOXICOLOGICAL INFORMATION

## 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Inhalation. Skin contact. Ingestion.

LC<sub>50</sub> (male rat): >2.28 mg/L (4 HR) LD<sub>50</sub> Oral (male rat): 2417 - 3270 mg/kg LD<sub>50</sub> Dermal (rat): 1700 - 2020 mg/kg

Acute Toxicity Estimates: Causes severe skin burns and eye damage.

Skin Irritation (rabbit): Severe.

Eye Irritation (rabbit): Corrosive; causes irreversible eye damage.

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

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## 12 ECOLOGICAL INFORMATION

### 12.3 ECOTOXICITY

The product may be toxic to fish and aquatic invertebrates. 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: UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ETHEPHON), 8, III ERG GUIDE 153 U.S. Surface Freight Classification: INHIBITORS, MODIFIERS OR REGULATORS, PLANT GROWTH (NMFC 101685; CLASS: 65)

## 15 REGULATORY INFORMATION

## 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: NFPA HMIS

3 Health 0 Least 3 Health
1 Flammability 1 Slight 1 Flammability
0 Instability 2 Moderate 0 Reactivity
3 High C PPE

High C PPE Severe

SARA Hazard Notification/Reporting

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

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This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

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### **DANGER**

Corrosive.

Causes irreversible eye damage and skin burns.

Do not get in eyes, on skin, or on clothing.

Wear coveralls over short sleeved shirt, chemical resistant gloves, chemical resistant footwear plus socks, goggles and chemical resistant headgear for overhead applications.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Remove and wash contaminated clothing before reuse.

## 16 OTHER INFORMATION

SDS STATUS: Section 2 revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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