

SDS REVISIONS: Section 16 DATE OF ISSUE: 06/25/2020 SUPERSEDES: 03/21/2018

**BOLL BUSTER** 

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name BOLL BUSTER

Other means of identification

Product Code PST-0046
UN/ID no UN3265
Synonyms None
Registration Number(s) 34704-856

Recommended use of the chemical and restrictions on use

Recommended Use Plant Growth Regulator.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer Address LOVELAND PRODUCTS, INC.

P.O. Box 1286

Greeley, CO 80632-1286

Emergency telephone number

Company Phone Number Emergency Telephone 1-888-LPI-CUST (574-2878) Chemtrec 1-800-424-9300

Medical Emergencies: 1-866-944-8565

US regulations require reporting spills of this material that could reach any surface waters.

The toll-free phone number for the US Coast Guard National Response Center is

1-800-424-8802

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 3 - (H311)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)

### Label elements



Signal word DANGER

Hazard statements H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage



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**Precautionary Statements -**

P264 - Wash face, hands and any exposed skin thoroughly after handling

Prevention

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P271 - Use only outdoors or in a well-ventilated area P260 - Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements -**

Response

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Center or doctor if you feel unwell. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P363 - Wash contaminated clothing before reuse

Precautionary Statements -

Storage

P405 - Store locked up

**Precautionary Statements -**

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
Ethephon 71.3% Al	16672-87-0	60 - 100	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 4 (H332) Skin Corr. 1C (H314) (EUH071) Aquatic Chronic 2 (H411)	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

OSHA Hazard Communication 29 CFR 1910.1200



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### 4. FIRST AID MEASURES

Description of first aid measures

**General advice** Get medical attention if symptoms occur.

Eye contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical

attention. Remove contact lenses, if present, after the first 5 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.

Inhalation Remove 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.

Ingestion Call a poison control center or doctor for treatment advice. Have person sip a glass of water

if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.

**Self-protection of the first aider** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed. Have the product container or label with

you when calling a poison control center or doctor or going for treatment. You may also call

1-866-944-8565 for emergency medical treatment information.

**Note to physicians** No specific antidote. Treat symptomatically.

Antidotes No data available

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO2, dry chemical, or foam

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Explosion data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions 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.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

**Environmental precautions**Do not allow into any sewer, on the ground or into any body of water. Should not be

released into the environment. Prevent further leakage or spillage if safe to do so. Prevent

product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Clean contaminated surface thoroughly. Dike far

ahead of liquid spill for later disposal. Take up mechanically, placing in appropriate

containers for disposal. Prevent product from entering drains. Dam up. After cleaning, flush

away traces with water.

### 7. HANDLING AND STORAGE

Precautions for safe handling

confined areas. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed

systems.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in

properly labeled containers.

**Incompatible materials** Incompatible with strong acids and bases. Incompatible with oxidizing agents.



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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

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.

**General Hygiene Considerations** When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep

away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing

and wash it before reuse. Wear suitable gloves and eye/face protection.



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# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution
Color Clear to light yellow

**Odor** Slight

Odor threshold No data available

<u>Property</u> <u>Values (Remarks - Method)</u>

pH 1.68 (1% solution)
Melting point / freezing point No data available
Boiling point No data available

Flash point > 100 (Tag Closed Cup)

Evaporation rate No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit: No data available Lower flammability limit: No data available Vapor pressure No data available Vapor density No data available **Specific Gravity** 1.307 g/ml No data available Water solubility Solubility in other solvents No data available Partition coefficient No data available No data available **Autoignition temperature** No data available **Decomposition temperature** Kinematic viscosity No data available **Dynamic viscosity** No data available **Explosive properties** No data available

**Other Information** 

**Oxidizing properties** 

VOC Content (%)

No data available
10.85lbs/gal

<u>Note:</u> 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.

No data available



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### 10. STABILITY AND REACTIVITY

Reactivity

No data available

**Chemical stability** 

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** 

None under normal processing.

**Conditions to avoid** 

Exposure to air or moisture over prolonged periods.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**Hazardous Decomposition Products** 

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity of the formulated product: 2417 - 3270 mg/kg 1700 - 2020 mg/kg > 2.28 mg/l (4-hr)

**Skin corrosion/irritation** Causes severe burns.

**Serious eye damage/eye irritation** Corrosive - causes irreversible eye damage.

Chemical Name	Oral LD <sub>50</sub> Dermal LD <sub>50</sub>		Inhalation LC50	
Ethephon 71.3% AI	= 3400 mg/kg (Rat)	= 5730 mg/kg (Rabbit)	= 90 mg/m <sup>3</sup> (Rat) 4 h	

Chemical Name	Skin corrosion/irritation	Eye damage/irritation	Respiratory sensitization	Skin sensitization
Ethephon 71.3% AI	Category 1			
16672-87-0				

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.
No information available.
No information available.

Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw

necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure.

Possible risk of irreversible effects.

**Aspiration hazard** No information available.

Information on likely routes of exposure

Product Information No data available

**Inhalation** No data available.

**Eve contact** No data available.

**Skin contact** No data available.

**Ingestion** No data available.



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12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Persistence and degradability

No information available.

**Bioaccumulation** 

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes 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 http://www.acrecycle.org/.

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

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT

UN/ID no UN3265

Proper shipping nameCorrosive liquid, acidic, organic, n.o.s. (Ethephon)U.S. Surface Freight Classification:INHIBITORS, MODIFIERS OR REGULATORS, PLANT

GROWTH (NMFC 101685, CLASS: 65)

Hazard Class 8
Packing Group III

Special Provisions IB3, T7, TP1, TP28

**Description** UN3265, Corrosive liquid, acidic, organic, n.o.s. (Ethephon

71.3% AI), 8, III

**Emergency Response Guide Number** 153



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15. REGULATORY INFORMATION

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

## **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardYesFire hazardNoSudden release of pressure hazardNoReactive HazardNo

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

US EPA Waste Number D002

U.S. EPA Label Information

EPA Registration Number 34704-856

**EPA Statement** 

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**DANGER - PELIGRO** 

### Difference between SDS and EPA Pesticide label

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 wasg contaminated clothing before reuse.



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# **16. OTHER INFORMATION**

Prepared By Product Stewardship and Regulatory Affairs

Reviewed By Safety, Health and Environment

 Issue Date
 06/25/2020

 Revision Date
 03/21/2018

 Revision Note
 03/21/2018

1 SDS section updated

**BOLL BUSTER** is a registered trademark of Loveland Products, Inc.

#### **Disclaimer**

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

**End of Safety Data Sheet**