

SDS REVISIONS: New

DATE OF ISSUE: 02/26/2019

ENDURANCE SUPERSEDES:

1. PRODUCT AND COMPANY IDENTIFICATION

<u>Product identifier</u> Product Name	ENDURANCE
Other means of identification Product Code Synonyms Registration Number(s)	PST-0076 None 34704-1125
Recommended use of the chemical	and restrictions on use
Recommended Use	Plant Growth Regulator.
Uses advised against	No information available
Details of the supplier of the safety Manufacturer Address LOVELAND PRODUCTS, INC. P.O. Box 1286 Greeley, CO 80632-1286	data sheet
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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Hazards not otherwise classified (HNOC)

Not applicable



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3. COMPOSITION/INFORMATION ON INGREDIENTS

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Mixture

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
Choline chloride	67-48-1	3 - 7		*
Gamma aminobutyric acid	56-12-2	3 - 7		*

*The exact percentage (concentration) of composition has been withheld as a trade secret. OSHA Hazard Communication 29 CFR 1910.1200

4. FIRST AID MEASURES

Description of first aid measures

General advice	(Get medical attention immediately if symptoms occur.).	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Call a poison control center or doctor for treatment advice.	
Skin contact	Take off contaminated clothing. Call a poison control center or doctor for treatment advice.	
Inhalation	Remove to fresh air.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medica	al 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	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

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		
Personal precautions	Ensure adequate ventilation, especially in confined areas.	
Environmental precautions		
Environmental precautions	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 Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

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

Incompatible materials None known based on information supplied.

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
0	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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

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Information on basic physical and chemical properties

Physical state	
Appearance	
Color	
Odor	
Odor threshold	

Liquid Aqueous solution Clear to yellow Faint No data available

Property	Values (Remarks - Method)
рН	3.59 (1% solution)
Melting point / freezing point	No data available
Boiling point	No data available
Flash point	No data available
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	1.084 g/ml
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	2.0 Centistokes @ 20 °C
Dynamic viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Other Information

VOC Content (%) Density

No data available 9.04lbs/gal

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.



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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

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Acute toxicity of the formulated product: > 5000 mg/kg > 5000 mg/kg > 2.06 mg/l

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

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

Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.
Ingestion	No data available.



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 12. ECOLOGICAL INFORMATION

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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 Proper shipping name U.S. Surface Freight Classification: Not regulated Not regulated INHIBITORS, MODIFIERS OR REGULATORS, PLANT GROWTH (NMFC 101685, CLASS: 65)



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15. REGULATORY INFORMATION						
<u>NFPA</u>	Health hazards 0 Flam	mability 0	Instability 0	Physical and Chemical Properties -		
HMIS	Health hazards 0 Flam	mability 0	Physical hazards 0	Personal protection X		
	0 - Least 1 - Slight	2 - Moderate	3 - High 4 -	Severe		

US Federal Regulations

<u>SARA 313</u>

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 hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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

U.S. EPA Label Information EPA Registration Number 34704-1125 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:

CAUTION

Difference between SDS and EPA Pesticide label

Applicators and other handlers must wear: Longl-sleeve shirt and long pants. Shoes plus socks.



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SUPERSEDES:

Prepared By Product Stewardship and Regulatory Affairs

Reviewed By Safety, Health and Environment

Issue Date Revision Date Revision Note New

ENDURANCE is a 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.

16. OTHER INFORMATION

End of Safety Data Sheet