



## SAFETY DATA SHEET

## COTTON DEFOLIANT CONCENTRATE

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/16/2020

SUPERSEDES: 01/08/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

**Product Name** COTTON DEFOLIANT CONCENTRATE

**Other means of identification**

**Product Code** PST-0014  
**Synonyms** None  
**Registration Number(s)** 34704-1022

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Agricultural defoliant.  
**Uses advised against** No information available

**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** 1-888-LPI-CUST (574-2878)  
**Emergency Telephone** 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)

Acute toxicity - Dermal	Category 4 - (H312)
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**Label elements**



**Signal word** WARNING

**Hazard statements** H312 - Harmful in contact with skin

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

**Precautionary Statements - Prevention** P280 - Wear protective gloves/protective clothing/eye protection/face protection



**SAFETY DATA SHEET**

**COTTON DEFOLIANT  
CONCENTRATE**

SDS REVISIONS: ALL SECTIONS    DATE OF ISSUE: 06/16/2020

SUPERSEDES: 01/08/2018

**Precautionary Statements -  
Response**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
P363 - Wash contaminated clothing before reuse

**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
Sodium Chlorate	7775-09-5	10 - 30		*

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



## SAFETY DATA SHEET

## COTTON DEFOLIANT CONCENTRATE

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/16/2020

SUPERSEDES: 01/08/2018

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Get medical attention if symptoms occur.
<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

#### 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 CO<sub>2</sub>, 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.



**SAFETY DATA SHEET**

**COTTON DEFOLIANT  
CONCENTRATE**

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/16/2020

SUPERSEDES: 01/08/2018

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** 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** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**Incompatible materials** Acids. Metals. Ammonia.



## SAFETY DATA SHEET

## COTTON DEFOLIANT CONCENTRATE

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/16/2020

SUPERSEDES: 01/08/2018

### 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. Regular cleaning of equipment, work area and clothing is recommended.



## SAFETY DATA SHEET

## COTTON DEFOLIANT CONCENTRATE

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/16/2020

SUPERSEDES: 01/08/2018

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Colorless
Odor	Odorless
Odor threshold	No data available

<u>Property</u>	<u>Values (Remarks - Method)</u>	
pH	8.5 (Neat)	
Melting point / freezing point	No data available	No data available
Boiling point	No data available	No data available
Flash point	Not flammable	
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	0	@ 24 °C
Vapor density	No data available	
Specific Gravity	No data available g/ml	
Water solubility	No data available	
Solubility in other solvents	No data available	
Partition coefficient	No data available	No data available
Autoignition temperature	No data available	No data available
Decomposition temperature	No data available	No data available
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	

#### Other Information

VOC Content (%)	No data available
Density	9.60lbs/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.



## SAFETY DATA SHEET

## COTTON DEFOLIANT CONCENTRATE

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/16/2020

SUPERSEDES: 01/08/2018

### 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

Acids. Metals. Ammonia.

#### Hazardous Decomposition Products

Oxygen. Chlorine.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity of the formulated product:

Oral LD <sub>50</sub>	> 5,000 mg/kg
Dermal LD <sub>50</sub>	> 2,000 mg/kg
Inhalation (Dust) LC <sub>50</sub>	> 5.59 mg/l (rat, 4 hr)

#### 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.
Chronic toxicity	Avoid repeated exposure.
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	Harmful in contact with skin.
Ingestion	No data available.



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**COTTON DEFOLIANT  
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SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/16/2020

SUPERSEDES: 01/08/2018

**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**

Not regulated

**Proper shipping name**

Not regulated

**U.S. Surface Freight Classification:**

DESSICANTS OR DEFOLIANTS, PLANT (NMFC 50320;  
CLASS: 60)





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## COTTON DEFOLIANT CONCENTRATE

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/16/2020

SUPERSEDES: 01/08/2018

### 15. REGULATORY INFORMATION

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical Properties - Personal protection G	
<u>HMIS</u>	Health hazards 2	Flammability 0	Physical hazards 0		
	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 hazard	Yes
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** 34704-1022

#### **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**

Harmful if absorbed through skin. Avoid contact with skin or clothing.



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**COTTON DEFOLIANT  
CONCENTRATE**

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SUPERSEDES: 01/08/2018

**16. OTHER INFORMATION**

**Prepared By** Product Stewardship and Regulatory Affairs

**Reviewed By** Safety, Health and Environment

**Issue Date** 06/16/2020

**Revision Date** 01/08/2018

**Revision Note**

All SDS sections updated

**COTTON DEFOLIANT CONCENTRATE** 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.

**End of Safety Data Sheet**