



## SAFETY DATA SHEET

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/25/2018

**ALPHANOVA 4-0-2**

SUPERSEDES: 08/23/2017

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

**Product Name** ALPHANOVA 4-0-2

**Other means of identification**

**Product Code** FRT-0013A  
**Document** 1000172682; 1000846399  
**Synonyms** None

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

**Recommended Use** Foliar Nutrient. Soil Nutrient.  
**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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
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**Label elements**



**Signal word**

**WARNING**

**Hazard statements**

H373 - May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

P314 - Get medical advice/attention if you feel unwell



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### 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

\*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

<b>General advice</b>	(Get medical attention immediately if symptoms occur.)
<b>Eye contact</b>	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.
<b>Skin contact</b>	Take off contaminated clothing. Call a poison control center or doctor for treatment advice.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	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 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** Treat symptomatically.

**Antidotes** No data available



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### 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.

### 6. ACCIDENTAL RELEASE MEASURES

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

##### **Personal precautions**

Avoid breathing vapors or mists. Do not get in eyes, on skin, or on clothing.

#### Environmental precautions

##### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. 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. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

##### **Methods for cleaning up**

Take up with sand, earth or other non-combustible absorbent material. 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.



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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

Exposure Guidelines

Appropriate engineering controls

**Engineering Controls**                      Showers  
   Eyewash stations  
   Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection**                      Wear safety glasses with side shields (or goggles).

**Skin and body protection**                Wear suitable protective clothing.

**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**      Do not eat, drink or smoke when using this product.



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Liquid
<b>Color</b>	Dark brown
<b>Odor</b>	Sugary Slight Ammonia
<b>Odor threshold</b>	No data available

<u>Property</u>	<u>Values (Remarks - Method)</u>	
<b>pH</b>	5.0 - 5.5 (NEAT)	
<b>Melting point / freezing point</b>	No data available	
<b>Boiling point</b>	No data available	
<b>Flash point</b>	> 100 > 212 (Tag Closed Cup)	
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	
<b>Flammability Limit in Air</b>		No data available
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	
<b>Vapor pressure</b>	No data available	
<b>Vapor density</b>	No data available	
<b>Specific Gravity</b>	1.138 g/ml	
<b>Water solubility</b>	Soluble	Soluble in water
<b>Solubility in other solvents</b>	No data available	No data available
<b>Partition coefficient</b>	No data available	No data available
<b>Autoignition temperature</b>	No data available	No data available
<b>Decomposition temperature</b>	No data available	No data available
<b>Kinematic viscosity</b>	No data available	
<b>Dynamic viscosity</b>	No data available	
<b>Explosive properties</b>	No data available	
<b>Oxidizing properties</b>	No data available	

**Other Information**

<b>VOC Content (%)</b>	No data available
<b>Density</b>	9.50lbs/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

None known.

#### Incompatible materials

None known.

#### Hazardous Decomposition Products

May include but are not limited to: Carbon oxides. Sulfur oxides. Ammonia. Nitrogen oxides (NOx).

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity of the formulated product:

Oral LD<sub>50</sub> 2150 mg/kg

#### 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	May cause adverse effects on the bone marrow and blood-forming system.
Target Organ Effects	blood, Central nervous system, kidney, Respiratory system.
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**

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**

Dispose of in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION**

DOT

UN/ID no

Not regulated

Proper shipping name

Not regulated

U.S. Surface Freight Classification:

FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)



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**15. REGULATORY INFORMATION**

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical Properties - Personal protection B	
<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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Manganese Sulfate - 7785-87-7	1.0
AMMONIUM PROPIONATE - 17496-08-1	1.0

**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**





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### 16. OTHER INFORMATION

**Prepared By** Product Stewardship and Regulatory Affairs

**Reviewed By** Safety, Health and Environment

**Issue Date** 07/25/2018

**Revision Date** 07/26/2018

**Revision Note**

16 SDS sections updated

ALPHANOVA 4-0-2 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**