

# Safety Data Sheet

## Section 1 Product Information

Product Name: Endure 18-0-3 STD, .20 MALLET, 40%UMAXX, MOP Product Code: 2019160  
Spring Valley 800-635-2123  
1891 Spring Valley Rd.  
Jackson, WI 53037

Product Use: Granular blended fertilizer for general horticulture use.  
Not recommended for: Not recommended for use in or around bodies of water.

## Section 2 Hazards

### GHS Ratings:

Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Carcinogen	1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity

### GHS Hazards

H319	Causes serious eye irritation
H350	May cause cancer

### GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash ... thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container in accordance with local, state, and federal laws.

Signal Word: Danger



Delayed, immediate and chronic effects of exposure: None expected.

## Section 3 Composition

Exact percentages of components are withheld as a trade secret.

Chemical Name	CAS number	Weight Concentration %
Dolomite granules	16389-88-1	
Urea Granular	57-13-6	

Biodac	Biodac	
Potassium Chloride	7447-40-7	
N-(n-Butyl)thiophosphoric triamide	94317-64-3	

(1) Nuisance limit

### Section 4 First Aid

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water.

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Most important symptoms/effects, acute and delayed:** None expected.

**Indication of immediate medical attention and special treatment if needed:** For ingestion there is no specific antidote available. Treat symptomatically

### Section 5 Fire Fighting

Flash Point: N/A

LEL:

UEL:

**Flammability Limits:** Not determined

**Extinguishing Media:** Water, carbon dioxide, dry chemical or foam

**Unusual Fire and Explosion Hazards:** If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later

**Hazardous Decomposition Materials (Under Fire Conditions):** May produce gases such as hydrogen chloride, hydrogen cyanide, and oxides of carbon and nitrogen

**Special Fire Fighting Procedures:** Protect eyes and skin from contact with smoke. Wear self contained breathing apparatus when fighting fires. Keep all nonessential personnel upwind from smoke. Contain runoff waters and consult with your local environmental agencies before disposal.

**Special Fire Fighting Procedures:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turnout gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later

### Section 6 Accidental Release Measures

**Cleanup procedures:** Sweep spill, repack in labeled container and reuse.

### Section 7 Handling and Storage

**HANDLING AND STORAGE** Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes, or

clothing. Users should 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 Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross-contamination with other pesticides, fertilizers, food and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Do not contaminate water, food, or feed by storage or disposal.

Section 8 Exposure Control and Personal Protection			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Dolomite granules 16389-88-1	Not Established	Not Established	Not Established
Urea Granular 57-13-6	15mg/m <sup>3</sup>	Not Established	Not Established
Biodac Biodac	Not Established	Not Established	Not Established
Potassium Chloride 7447-40-7	Not Established	Not Established	Not Established
N-(n-Butyl)thiophosphoric triamide 94317-64-3	5 mg/m <sup>3</sup> as dust	Not Established	Not Established

**Eye/Face Protection:** To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

**Skin Protection:** To avoid contact with skin wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

**Respiratory Protection:** Not normally required if vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

**General Hygiene Considerations:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

## Section 9 Physical Properties

<p><b>Appearance</b> Blend of granular pellets.</p> <p><b>Physical State</b> Solid Granular</p> <p><b>Specific Gravity (SG)</b> 1.657</p>	<p><b>Odor</b> Slightly earthy</p> <p><b>Boiling Range</b> 1420 to 1500 °C</p> <p><b>Lbs VOC/Gallon Less Water</b> 0.00</p>
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## Section 10 Stability and Reactivity

STABLE

**Incompatibilities:** None known.

Not Applicable

**Hazardous Decomposition:** Under fire conditions, may produce gases such as hydrogen chloride, hydrogen cyanide, and oxides of ca nitrogen.

Not Applicable

Hazardous polymerization will not occur.

**Section 11 Toxicological Information**

**Mixture Toxicity**

**Component Toxicity**

7447-40-7	Potassium Chloride Oral LD50: 1,500 mg/kg (rat)
94317-64-3	N-(n-Butyl)thiophosphoric triamide Oral LD50: 2,823 mg/kg (rat) Dermal LD50: 2,000 mg/kg (rat)

**Likely Routes of Exposure:** Skin contact, Inhalation, Eye contact

**Symptoms of Exposure:** None expected.

Skin Contact	Eye Contact	Ingestion
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Not Applicable

**Effects of Overexposure**

**Assessment Carcinogenicity:** None listed with ACGIH, IARC, NTP or OSHA

**Subchronic (Target Organ) Effects:** Repeated overexposure to imidacloprid may affect heart, thyroid, blood chemistry, and liver.

**Carcinogenicity / Chronic Health Effects:** Prolonged overexposure to imidacloprid can cause effects to the thyroid. Imidacloprid did not cause cancer in laboratory animal studies. The U.S. EPA has given imidacloprid a Group E classification (evidence of non-carcinogenicity in humans).

**Reproductive Toxicity:** In a two-generation reproduction study in rats, imidacloprid produced reduced mean body weights and body weight gains. No other reproductive effects were observed.

**Developmental Toxicity:** Rat and rabbit studies on imidacloprid resulted in skeletal abnormalities, increased resorptions (rabbits) and reduced body weight gains at doses that were also toxic to mother animals. **Genotoxicity:** The imidacloprid mutagenicity studies, taken collectively, demonstrate that imidacloprid is not genotoxic or mutagenic.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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Dolomite granules: Limestone (Dolomite granules) is not listed on the NTP, IARC or OSHA lists of carcinogens. Crystalline silica, a naturally occurring component of limestone, is listed by IARC but not by NTP or OSHA. IARC has determined that there is sufficient evidence for carcinogenicity to experimental animals exposed to crystalline silica and limited evidence for carcinogenicity to humans. "Limited evidence" means that a causal relationship is possible; however, other explanations such as chance, bias or confounding factors cannot adequately be excluded. NTP has proposed (1989) to list crystalline silica based on the IARC determination. The quantity of crystalline silica in limestone, being part of a naturally occurring mined material, vary based on where and when the material is mined. As such the exact percentage of crystalline silica in this product cannot be accurately calculated between individual batches of this product. In order to provide our end users with the most relevant safety information and err on the side of caution and in accordance with the GHS standards set forth for crystalline silica stating that any product containing more than 0.1% crystalline silica must be marked with a Carcinogen hazard classification this product bears this mark even in cases where it may not be strictly required.

## Section 12 Ecological Information

This product is toxic to aquatic invertebrates.

### **Ecotoxicity:**

Data based on the active ingredient Imidacloprid:

96-hour LC50 Rainbow Trout: 211 mg/l

Japanese Quail Oral LD50: 31 mg/kg

48-hour EC50 Daphnia: 85 mg/l

Bobwhitie Quail Oral LD50: 152 mg/kg

96-hour LC50 Mysid: 0.038 ppm

48-hour Honey Bee Contact LD50: 0.078 µg/bee

House Sparrow Oral LD50: 41 mg/kg

48-hour Honey Bee Oral LD50: 0.0039 µg/b

### **Environmental Fate**

Hydrolysis half-life of imidacloprid is greater than 30 days at pH 7 and 25°C. The aqueous photolysis half-life is less

than 3 hours. The soil surface photolysis of imidacloprid has a half-life of 39 days, and in soil, the half-life ranged from 26 to 229 days.

### Component Ecotoxicity

Urea Granular

96 Hr LC50 *Poecilia reticulata*: 16200 - 18300 mg/L

48 Hr EC50 *Daphnia magna*: 3910 mg/L [Static]

### Section 13 Disposal Considerations

**Product Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Nonrefillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke.

### Section 14 Transportation

Technical shipping name:..... Not regulated.

Proper shipping name:..... Not regulated.

Hazard Class or Division:..... Not regulated.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
	Not Applicable			

### Section 15 Regulations

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. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION. Avoid breathing spray mist. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category A). Keep children and pets off treated area until dry.

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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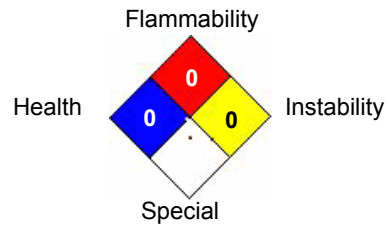
### Section 16 Other Information

Hazardous Material Information System (HMIS)

National Fire Protection Association (NFPA)

<b>HEALTH</b>	<input type="text" value="0"/>
<b>FLAMMABILITY</b>	<input type="text" value="0"/>
<b>PHYSICAL HAZARD</b>	<input type="text" value="0"/>
PERSONAL PROTECTION	<input type="text"/>

**HMIS & NFPA Hazard Rating**  
**Legend**  
 \* = Chronic Health Hazard  
 0 = INSIGNIFICANT  
 1 = SLIGHT  
 2 = MODERATE  
 3 = HIGH



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Reviewer Revision

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