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SDS#: **1856** 

Revision Date: 08/20/18

# Section 1 - Identification of the substance/mixture and of the supplier

Trade Name: Prudent® Ready GST

Product Code: PrudReadyGST

Chemical Name: 2-6-1.7 Fertilizer solution with EDTA & IDS chelated B, Cu, Fe, Mn & Zn micronutrients

Application/Uses: Fertilizing Compound

Restrictions: None

Distributor Information: PERFORMANCE NUTRITION - A Division of LidoChem, Inc. 20 Village Court, Hazlet, NJ 07730

Phone: (732) 888 8000 • Fax: (732) 264 2751 • email: info@lidochem.com

Emergency Phone Number: CHEMTREC - Day or Night - at 800 424 9300

### **Section 2 - Hazard Identification**

#### Classification of the substance or mixture (GHS-US)

Reproductive toxicity 2
Acute oral toxicity 4
Acute inhalation toxicity 4
Acute dermal toxicity 4
Skin corrosion/irritation 2
Serious eye damage/eye irritation 2B
STOT SE 3 (irritating to respiratory system)

# **Physical Hazards**

None

### **Hazard Statements**

H302: Harmful if swallowed

H312: Harmful in contact with skin

H315: Causes skin irritation

H320: Causes eye irritation

H332: Harmful if inhaled

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H361: Suspected of damaging fertility or the unborn child

# GHS Label elements

**Hazard Pictograms** 

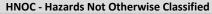
Signal Word











None

# **Precautionary Statements:**

Precautionary Statements - Prevention, Response, Storage, Disposal

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing fume/mist/vapours/spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312 + P330: IF SWALLOWED: Call a poison control center or doctor/physician if you feel unwell. Rinse mouth.

P302 + P352 + P312: IF ON SKIN: Wash with plenty of soap and water. Call a poison center or doctor/physician if you feel unwell.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P304 + P340 + P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor/physician 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.

P337 + P313: If eye irritation persists get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national regulations.

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### SAFETY DATA SHEET

# Section 3 - Composition/Information on Ingredients

Chemical Identity: 2% N, 6% P<sub>2</sub>O<sub>5</sub>, 1.7% K<sub>2</sub>O, 0.05% B, 0.05% Cu, 0.5% Fe, 0.17% Mn, 06% Zn

CAS#:	Common Name/Synonyms:	% by Wt.
9012-76-4	Chitosan	11-12%
141-43-5	Monoethanolamine	9.0-9.5%
10025-77-1	Iron (III) chloride, hexahydrate	4.0-4.5%
60-00-4	Ethylenediaminetetraacetic acid	3.5-4.0%
13598-36-5	Phosphorus acid crystal	1.5-2.0%

CAS#:	Common Name/Synonyms:	% by Wt.
10043-35-3	Boric acid	0.7-0.75%
7773-01-5	Manganese (II) chloride	0.4-0.5%
51503-61-8	Ammonium phosphite	0.3-0.4%
590-29-4	Potassium formate	0.2-0.25%

# **Section 4 - First Aid Measures**

# **Description of first aid measures**

# **General Advice:**

Remove contaminated clothing and shoes. Seek medical advice immediately and show safety data sheet or product label to the doctor, if possible.

#### If Inhaled:

Remove person from contaminated area to fresh air. If not breathing, give artificial respiration. Seek medical attention if irritation or dizziness occurs.

#### In Case Of Skin Contact:

Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

## In Case Of Eye Contact:

Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.

#### If Swallowed:

Seek medical attention or call a poison control center immediately. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

# Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in section 2. Further symptoms are possible.

### Indication of any immediate medical attention and special treatment needed:

No additional information available.

# Section 5 - Fire-fighting Measures

### **Extinguishing media:**

Suitable extinguishing media: water spray, dry powder, carbon dioxide, foam.

### Specific Hazards arising from the substance or mixture:

Manganese oxides, sulfur oxides, potassium oxides, carbon oxides, nitrogen oxides, boron oxides and oxides of phosphorus may be formed in a fire situation.

# Advice for firefighters:

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

#### **Further information:**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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#### Section 6 - Accidental release measures

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

As outlined in section 8, wear appropriate respiratory protection. Avoid breathing fume, vapours, spray, mist or gas. Use personal protective clothing. Ensure adequate ventilation. Evacuate personnel to safe areas.

### **Environmental precautions:**

Do not allow spilled product to enter water supplies.

#### Methods and materials for containment and cleaning up:

Spills should be contained by diking area with sand or soil. Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back into the original container.

# Section 7- Handling and Storage

#### Precautions for safe handling:

Do not eat, drink or smoke when using this product. Wash hands and other exposed areas thoroughly after handling. Provide adequate ventilation. Protect packages against physical damage. Reseal containers immediately after use. Immediately remove and dispose of any spilled material.

### Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well ventilated area. Galvanized steel, copper and copper-based alloys (i.e. brass or bronze) should not be used in contact with this material.

### Section 8 - Exposure Control / Personal Protection

### **Control parameters:**

Chamical Identity	CAS #:	ACGIH Threshold Limit Values		OSHA PEL		NIOSH REL	
Chemical Identity:		TWA	STEL	TWA	STEL	TWA	STEL
Chitosan	9012-76-4	NDA	NDA	NDA	NDA	NDA	NDA
Monoethanolamine	141-43-5	2 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
Iron (III) chloride, hexahydrate	10025-77-1	1 mg/m <sup>3</sup>	NDA	NDA	NDA	NDA	NDA
Ethylenediaminetetraacetic acid	60-00-4	NDA	NDA	NDA	NDA	NDA	NDA
Phosphorus acid crystal	13598-36-5	NDA	NDA	NDA	NDA	NDA	NDA
Boric acid	10043-35-3	2 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	NDA	NDA	NDA	NDA
Manganese (II) chloride	7773-01-5	0.2 mg/m <sup>3</sup>	NDA	NDA	NDA	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
Ammonium phosphite	51503-61-8	NDA	NDA	NDA	NDA	NDA	NDA
Potassium formate	590-29-4	NDA	NDA	NDA	NDA	NDA	NDA

### Appropriate engineering controls:

Provide sufficient ventilation to maintain airborne concentrations below the recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

# Individual protection measures, such as personal protective equipment:

### Eye protection:

Tightly fitting safety goggles or face shield if a splashing hazard exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

### Skin protection:

Handle with chemical resistant protective gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

### SAFETY DATA SHEET

### Section 8 - Exposure Control / Personal Protection (cont.)

# **Body protection:**

Body protection must be chosen depending on activity and possible exposure, i.e. apron, chemical resistant footwear plus socks, long sleeved shirt, long pants, chemical protection suit.

### Respiratory protection:

Respiratory protection is not typically required if airborne concentrations are maintained below the established exposure limits. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions. Observe OSHA regulations for respirator use (29 CFR 1910.134)

### General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Employees should wash their hands and face before eating, drinking or using tobacco products.

# **Section 9 - Physical and Chemical Properties**

Appearance (physical state, color, etc): Reddish-Brown liquid

Odor: None

Odor threshold: None

**pH:** 6.0 - 7.0

Melting point: No data available

Freezing point: No data available

Initial boiling point: No data available

Boiling range: No data available

Flash point: No data available

**Evaporation rate:** No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density: No data available

Solubility: Soluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Specific gravity: 1.2

**Carcinogenicity:**No data available.



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# SAFETY DATA SHEET

**Bulk Density:** Not applicable

Reactivity:	
No data available.	
Chemical stability:	
Product is stable at ambien	t temperature and pressure, under normal storage and handling conditions.
Possibility of hazardous re	actions:
No data available.	
Conditions to avoid (i.e. st	atic discharge, shock or vibration):
No data available.	
Incompatible materials:	
No data available.	8
NO data available.	
Hazardous decomposition	products:
No data available.	
tion 11- Toxicological In	formation
	formation
Likely routes of exposure:  Inhalation, ingestion, skin a	
Likely routes of exposure:	
<b>Likely routes of exposure:</b> Inhalation, ingestion, skin a	
Likely routes of exposure: Inhalation, ingestion, skin a Symptoms related to physical	nd eye contact.
Likely routes of exposure: Inhalation, ingestion, skin a Symptoms related to physical Acute Toxicity: Acute oral - Ethanolamine:	nd eye contact.  , chemical and toxicological characteristics and delayed and immediate effects and chronic effects from short and long term exposure:  Estimated LD50 = 1,515 mg/kg. Manganese chloride: Estimated LD50 = 250 mg/kg. Ferric chloride: Estimated LD50 =
Likely routes of exposure: Inhalation, ingestion, skin a Symptoms related to physical Acute Toxicity: Acute oral - Ethanolamine: 1,872 mg/kg. EDTA: Estim	nd eye contact.  chemical and toxicological characteristics and delayed and immediate effects and chronic effects from short and long term exposure:  Estimated LD50 = 1,515 mg/kg. Manganese chloride: Estimated LD50 = 250 mg/kg. Ferric chloride: Estimated LD50 = ated LD50 = 4,500 mg/kg. Phosphorus acid: Estimated LD50 = 1,560 mg/kg. Boric acid: Estimated LD50 = 2,660 mg/kg.
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### SAFETY DATA SHEET

# Section 11- Toxicological Information (cont.)

#### Germ cell mutagenicity

No data available.

#### Reproductive toxicity:

No data available for this mixture. Boric acid has been demonstrated to have an effect on male fertility and the development of an unborn child.

### Specific target organ toxicity - single or repeated exposure:

No data available for this mixture. **Ethanolamine**: After repeated exposure, the prominent effect is local irritation. The substance may cause damage to the upper respiratory tract after repeated inhalation. **Potassium formate**: Prominent effect is local irritation. The substance may cause damage to the upper respiratory tract.

# Aspiration hazard:

No data available.

### Symptoms after inhalation:

Harmful if inhaled.

### Symptoms after skin contact:

May cause skin irritation.

#### Symptoms after eye contact:

May cause eye irritation including redness and inflammation.

### Symptoms after ingestion:

Harmful if swallowed.

# Section 12- Ecological Information

# Ecotoxicity (aquatic and terrestrial, where available):

## Toxicity to fish (acute and chronic):

No data available for the mixture. Individual component data reported. **EDTA:** LC50: 41 mg/l, exposure time: 96 h, species: *Lepomis macrochirus* (Bluegill sunfish), test type: static test. **Manganese chloride:** LC50: 51 mg/l, exposure time: 96 h, species: *Orconectes limosus* **Ethanolamine:** LC50: 349 mg/l, exposure time: 96 h, species: Cyprinus carpio (Carp), test type: semi-static test. Literature data. Chronic: NOEC: 1.2 mg/l, exposure time: 30 d, species: Oryzias latipes (orange-red killifish), method: OECD test guideline 210. Literature data. **Ferric chloride, hexahydrate:** LC50: 26 ppm iron, exposure time: 96 h, species: *Pisces,* LC50: 75.6 mg/l anyhdrous form, exposure time: 96 h, species: *Gambusia affinis*. **Chitosan:** LC50: 1.73 mg/l, exposure time: 96 h, species: *Oncorhynchus mykiss* (rainbow trout). **Boric acid:** LC50: 279 mg/l, exposure time: 96 h, species: *Ptychocheilus lucius.* LC50: >1,021 mg/l, exposure time: 96 h, species: *Lepomis macrochirus* (Bluegill).

#### Toxicity to daphnia and other aquatic invertebrates (acute and chronic):

No data available for the mixture. Individual component data reported. **Boric acid:** EC50: 133 mg/l, exposure time: 48 h, species: *Daphnia magna* (water flea). **EDTA:** EC50: 625 mg/l, exposure time: 48 h, species: *Daphnia magna* (water flea). **Manganese chloride:** EC50: >11 mg/l, exposure time: 48 h, species: *Daphnia magna* (water flea). **Ethanolamine:** EC50: 65 mg/l, exposure time: 48 h, species: *Daphnia magna* (water flea), test type: static test, method: 84/449/EEC C.2, Literature data. Chronic: NOEC: 0.85 mg/l, exposure time: 21 d, species: *Daphnia magna* (water flea), method: OECD test guideline 211. Literature data. **Ferric chloride, hexahydrate:** EC50: 9.6 mg/l anhydrous form, exposure time: 48 h, species: *Daphnia magna* (water flea). EC50: 296-424 mg/l, exposure time: 96 h, species: *Crangon sp.* **Chitosan:** EC50: 13.69 mg/l, exposure time: 48 h, species: *Daphnia pulex* (water flea).

### Toxicity to algae:

No data available for the mixture. Individual component data reported.

Ethanolamine: ErC50: 2.5 mg/l, exposure time: 72 h, species: *Pseudokirchneriella subcapitata* (green algae), test type: OECD test guideline 201. Literature data.

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### SAFETY DATA SHEET

# Section 12- Ecological Information (cont.)

### Persistence and degradability:

No data available for the mixture.

Ethanolamine: readily biodegradable. Method OECD test guideline 301 E

#### Bioaccumulative potential:

No data available.

# Mobility in the soil:

No data available.

# Other adverse effects:

No data available for this mixture; however, manganese (II) chloride and chitosan are very toxic to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

# **Section 13 - Disposal Considerations**

#### Waste treatment methods - product:

Dispose in accordance with all local, state and federal regulations. In unused condition, this product is not considered to be a RCRA defined hazardous waste by character/listings. It is the responsibility of the waster generator to evaluate whether this wastes are hazardous by characteristic/listing.

# Waste treatment methods - container:

Containers should be cleaned of residual product before disposal. Empty containers should be disposed of in accordance with all applicable laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise inappropriate.

# Section 14 - Transport Information - US DOT, IATA, IMO, ADR:

Proper Shipping Name: Fertilizing Compound, NOI, Liquid - Prudent Ready GST

D. O. T. Hazard Class: Not Regulated by D.O.T. UN #: N/Ap

Label Requirement: None RQ: N/Ap

Placard: None CAS: Mixture

Packing Group: N/Ap ERG Book Information: Guide # 171

Environment Hazards: None Marine Pollutant: None

Special Precautions: None IATA: None

# Section 15 - Regulatory Information

# U.S. Federal - OSHA Status:

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910,1200.

#### **TSCA Status:**

Listed/Reportable

SARA Title III Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:

# PRUDENT LEGACY-GST

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### SAFETY DATA SHEET

This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

## Section 15 - Regulatory Information (cont.)

### SARA Title III Sections 311/312:

Immediate (acute) health hazard

# **SARA Section 313 Toxic Chemicals:**

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

CAS# Chemical Name:

60-00-4 This material does NOT contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

7646-85-7

#### SARA Superfund Section 110:

This product does not contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

### CERCLA, 40 CFR 117, 302:

This product does not contain ingredients specified in the List of Extremely Hazardous Substances.

### **CERCLA listed substances are:**

Ethylendiamine tetraacetic Acid RQ 5000lbs

# Other Federal Reporting Requirements:

CAA: This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act

**CWA:** No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

RCRA: Not a hazardous waste under RCRA.

# **State Reporting Requirements:**

# State Right to Know Laws:

CAS#	State RTK	Chemical Name			
60-00-4	NJ, PA, MA	Ethylendiamine tetraacetic Acid			
141-43-5	CT, MA, MN, NJ,	Monoethanolamine			
	PA, RI				
13598-36-2	NJ	Phosphorus acid crystal			

# **CALIFORNIA PROPOSITION 65:**

To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

# **Michigan Critical Materials:**

This product does not contain ingredients listed on the Michigan Critical Materials Register.

# **Global Lists/International Inventories:**

Canada CEPA: All components are listed on the Canadian DSL





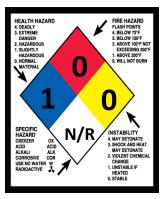
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Canada WHMIS: No Information Found

### **Section 16 - Other Information**

**Note Section 3:** Any concentration shown as a range is to protect confidentiality or is due to batch variation.

8-20-18 - Reviewed, updated California Proposition 65 statement, this replaces all previous SDS's.



Date of last revision:

8/20/2018

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Safety Data Sheet available to your employees.

# **Key Legend Information:**

N/Ap: Not Applicable N/R: Not Rated ND: Not Determined **ACGI** American Conference of Govr'ntal Industrial Hygienists NDA: No Data Available Occupational Saftey and Health Administration OSHA: TLV: Threshold Limit Value PEL: Permissable Exposure Limit TWA: Time Weighted Average STEL: Short Term Exposure Limit NTP: **National Toxicology Program** International Agency for Research on Cancer TSCA: **Toxic Substance Control Act** IARC:

SARA Title III: Superfund Amendments and Reauthorization Act CERCLA: Comprehensive Response, Compensation and Liability Act

CAA: Clean Air Act CWA: Clean Water Act

RCRA: Resource Conservation Recovery Act

IATA: International Air Transport Association Shipping Info. IMO: International Maritime Organization Shipping Info.

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