

## Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 02.20.2026

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### BRANDT Manni-Plex Total Turf

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** BRANDT Manni-Plex Total Turf

**Product code:** 28140BRN

##### Recommended Use of the Chemical and Restrictions on Use:

**Recommended Uses:** Micronutrient fertilizer

**Restrictions on Use:** Refer to product label

##### Manufacturer or Supplier Details

###### Manufacturer:

###### United States

BRANDT Consolidated, Inc.

2935 South Koke Mill Road

Springfield, Illinois 62711

1-217-547-5800

msds@Brandt.co

www.brandt.co

Only Representative: Regulatory Department

##### Emergency Telephone Number:

###### WORLD (Including UK and Germany)

CHEMTREC

1-800-424-9300 (24 HOURS)

Virgin Islands 1-800-424-9300 (24 HOURS)

International Maritime +1 (703) 527-3887 (24 HOURS)

#### SECTION 2: Hazard Identification

##### Classification of the chemical in accordance with paragraph (d) of § 1910.1200:

Reproductive toxicity, category 2

Acute aquatic hazard, category 3

##### Label elements

###### Hazard Symbol(s):



**Signal Word:** Warning

###### Hazard statement(s):

H361 Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H402 Harmful to aquatic life

###### Precautionary Statement(s):

P273 Avoid release to the environment.

P201 Obtain special instructions before use.

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

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

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P501 Dispose of contents/container to ...

**Hazards Not Otherwise Classified:** None

### SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 13446-18-9	Magnesium nitrate hexahydrate	25-35
CAS Number: 10377-66-9	Manganese dinitrate	2-3
CAS Number: 7779-88-6	Zinc nitrate	2-3
CAS Number: 12280-03-4	disodium; boron; oxygen(2-); tetrahydrate	1-3

**Additional information:** No additional information

### SECTION 4: First Aid Measures

#### Description of Necessary Measures

##### General Notes:

Show this Safety Data Sheet to the doctor in attendance

##### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention

##### After Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

##### After Eye Contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

##### After Ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center.

Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

#### Most Important Symptoms and Effects, Both Acute and Delayed

##### Acute Symptoms and Effects:

Not determined or not applicable.

##### Delayed Symptoms and Effects:

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also

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affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death

### Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

#### Immediate Medical Attention:

No additional information.

#### Special Treatment:

No additional information.

#### Notes for the Doctor:

Treat symptomatically

## SECTION 5: Firefighting Measures

### Extinguishing Media

#### Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam

#### Unsuitable Extinguishing Media:

Do not use water jet

### Specific Hazards Arising From The Chemical:

Thermal decomposition may produce irritating/toxic fumes/gases

### Special Protective Equipment and Precautions for Fire-Fighters

#### Special Protective Equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

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

#### Special precautions

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution

## SECTION 6: Accidental Release Measures

### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling

### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided

### Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

## SECTION 7: Handling and Storage

### Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas

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thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10). Store in secured area away from children, feed, and other food products. Store in original container. Store in a well-ventilated area. Storage temperature: 40 F to 100 F.

## SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

### Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	disodium; boron; oxygen(2-); tetrahydrate	12280-03-4	8-Hour TWA: 2 mg/m <sup>3</sup> (Borate compounds, inorganic, inhalable fraction)
	disodium; boron; oxygen(2-); tetrahydrate	12280-03-4	15-Minute STEL: 6 mg/m <sup>3</sup> (Borate compounds, inorganic, inhalable fraction)
	Manganese dinitrate	10377-66-9	8-Hour TWA: 0.1 mg/m <sup>3</sup> (Mn inhalable particulate matter (as Manganese inorganic compounds))
	Manganese dinitrate	10377-66-9	8-Hour TWA: 0.02 mg/m <sup>3</sup> (Mn respirable particulate matter (as Manganese inorganic compounds))
NIOSH	Manganese dinitrate	10377-66-9	8-Hour TWA: 1 mg/m <sup>3</sup> (Mn (as Manganese compounds))
	Manganese dinitrate	10377-66-9	15-Minute STEL: 3 mg/m <sup>3</sup> (Mn (as Manganese compounds,))
	Manganese dinitrate	10377-66-9	IDLH: 500 mg/m <sup>3</sup> (Mn (as Manganese compounds))
OSHA	Manganese dinitrate	10377-66-9	Ceiling Limit: 5 mg/m <sup>3</sup> (Mn (as Manganese compounds))
United States(California)	Manganese dinitrate	10377-66-9	PEL: 0.2 mg/m <sup>3</sup> (Mn (as Manganese compounds))

### Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

### Information on Monitoring Procedures:

Not determined or not applicable.

### Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

### Individual Protection Measures, Such as Personal Protective Equipment

#### Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

#### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to

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remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

Physical state	Aqueous solution; liquid
Color	Amber
Odor (includes odor threshold)	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flammability	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	Not determined or not available.
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	3.5-5.5
Kinematic viscosity	Not determined or not available.
Solubilities	100% in water
Partition coefficient (n-octanol/water)	Not determined or not available.
Vapor pressure (includes evaporation rate)	Not determined or not available.
Density and/or relative density	10.20-10.70 lb/gal (1.22-1.28 g/cm <sup>3</sup> )
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

### Other Information

No additional information.

## SECTION 10: Stability and Reactivity

### Reactivity:

Not reactive under recommended handling and storage conditions.

### Chemical Stability:

Stable under recommended handling and storage conditions.

### Possibility of hazardous reactions, including those associated with foreseeable emergencies:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

### Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

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### Incompatible Materials:

None known.

### Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological Information

### Acute Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

Name	Route	Result
disodium; boron; oxygen(2-); tetrahydrate	oral	LD50 Rat: 2550 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: >2.01 mg/L (4 hr [dust/mist])
Magnesium nitrate hexahydrate	oral	LD50 Rat: 5440 mg/L
	dermal	LD50 Rat: > 5000 mg/kg
Manganese dinitrate	oral	LD50 Rat: >300 mg/kg
Zinc nitrate	oral	LD50 Rat: >300 mg/kg ([Read-across substance data])
	dermal	LD50 Rat: >2000 mg/kg

### Skin Corrosion/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

#### Substance Data:

Name	Result
Manganese dinitrate	Causes severe skin burns.
Zinc nitrate	Causes skin irritation.

### Serious Eye Damage/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

#### Substance Data:

Name	Result
disodium; boron; oxygen(2-); tetrahydrate	Causes serious eye irritation.
Manganese dinitrate	Causes serious eye damage.
Zinc nitrate	Causes serious eye damage.

### Respiratory or Skin Sensitization

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:** No data available.

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### International Agency for Research on Cancer (IARC):

Name	Classification
disodium; boron; oxygen(2-); tetrahydrate	Not Applicable
Magnesium nitrate hexahydrate	Not Applicable
Manganese dinitrate	Not Applicable
Zinc nitrate	Not Applicable

### National Toxicology Program (NTP):

Name	Classification
disodium; boron; oxygen(2-); tetrahydrate	Not Applicable
Magnesium nitrate hexahydrate	Not Applicable
Manganese dinitrate	Not Applicable
Zinc nitrate	Not Applicable

**OSHA Carcinogens:** Not applicable

### Germ Cell Mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

### Reproductive Toxicity

**Assessment:**

Suspected of damaging fertility or the unborn child.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
disodium; boron; oxygen(2-); tetrahydrate	May damage fertility or the unborn child.

### Specific Target Organ Toxicity (Single Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Zinc nitrate	May cause respiratory irritation.

### Specific Target Organ Toxicity (Repeated Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Manganese dinitrate	May cause damage to organs (central nervous system; lungs; brain) through prolonged or repeated exposure

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### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

### Information on Likely Routes of Exposure:

No data available.

### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

**Interactive effects:**

No additional information.

**Other Information:**

No additional information.

## SECTION 12: Ecological Information

### Ecotoxicity

#### Acute (Short-Term) Toxicity

**Assessment:**

Harmful to aquatic life.

**Product Data:** No data available.

**Substance Data:**

Name	Result
disodium; boron; oxygen(2-); tetrahydrate	Fish LC50 Pimephales promelas: 79.7 mg/L (96 hr [read-across to CAS# 12008-41-2])
	Aquatic Plants EC50 Phaeodactylum tricornutum: 66 mg/L (72 hr [growth rate; read-across to CAS# 12008-41-2])
Magnesium nitrate hexahydrate	Fish LC50 Oncorhynchus mykiss: > 100 mg/L (96 hr [mortality])
	Aquatic Invertebrates EC50 Daphnia magna: 490 mg/L (48 hr)
Manganese dinitrate	Fish LC50 Oncorhynchus mykiss: 14.5 mg/L (96 hr [read-across substance data])
	Aquatic Invertebrates EC50 Daphnia magna: >100 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Desmodemus subspicatus: 61 mg/L (72 hr [growth rate])
Zinc nitrate	Fish LC50 Thymallus arcticus: 0.112 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 0.86 mg/L (48 hr)

#### Chronic (Long-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:**

Name	Result
Magnesium nitrate hexahydrate	Fish NOEC Pimephales promelas: 58 mg/L (30 d [mortality])
Manganese dinitrate	Fish NOEC Danio rerio: 4.50 mg/L (35 d [survival])
	Aquatic Invertebrates NOEC Crassostrea gigas: 0.02 mg/L (20 d [growth])
Zinc nitrate	Fish NOEC Oncorhynchus mykiss: 0.036 mg/L
	Aquatic Invertebrates NOEC Cephalopod species: 0.053 mg/L (35 d [growth])

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### Persistence and Degradability

**Product Data:** No data available.

**Substance Data:**

Name	Result
disodium; boron; oxygen(2-); tetrahydrate	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.
Magnesium nitrate hexahydrate	Persistence assessment based on biodegradability is not relevant for metals and their inorganic compounds such as this substance.
Manganese dinitrate	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.
Zinc nitrate	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

### Bioaccumulative Potential

**Product Data:** No data available.

**Substance Data:**

Name	Result
disodium; boron; oxygen(2-); tetrahydrate	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.
Magnesium nitrate hexahydrate	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for metals and their inorganic compounds such as this substance.
Manganese dinitrate	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.
Zinc nitrate	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

### Mobility in Soil

**Product Data:** No data available.

**Substance Data:**

Name	Result
disodium; boron; oxygen(2-); tetrahydrate	Mobility in soil assessment not applicable for inorganic compounds such as this substance.
Magnesium nitrate hexahydrate	Mobility in soil assessment based on KOC/Kd values are not relevant for metals and their inorganic compounds such as this substance.
Manganese dinitrate	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.
Zinc nitrate	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.

### Results of PBT and vPvB assessment

**Product Data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Substance Data:**

**PBT assessment:**

disodium; boron; oxygen(2-); tetrahydrate	PBT assessment does not apply to inorganic compounds such as this substance.
Magnesium nitrate hexahydrate	PBT assessment does not apply to metals and their inorganic compounds such as this substance.
Manganese dinitrate	PBT assessment does not apply to inorganic compounds such as this substance.

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Zinc nitrate	PBT assessment does not apply to inorganic compounds such as this substance.
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### vPvB assessment:

disodium; boron; oxygen(2-); tetrahydrate	vPvB assessment does not apply to inorganic compounds such as this substance.
Magnesium nitrate hexahydrate	vPvB assessment does not apply to metals and their inorganic compounds such as this substance.
Manganese dinitrate	vPvB assessment does not apply to inorganic compounds such as this substance.
Zinc nitrate	vPvB assessment does not apply to inorganic compounds such as this substance.

**Other Adverse Effects:** No additional information.

## SECTION 13: Disposal Considerations

### Disposal Methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### Contaminated packaging:

Not determined or not applicable.

## SECTION 14: Transport Information

### United States Transportation of Dangerous Goods (49 CFR DOT)

<b>UN Number</b>	Not regulated
<b>UN Proper Shipping Name</b>	Not regulated
<b>UN Transport Hazard Class(es)</b>	None
<b>Packing Group</b>	None
<b>Environmental Hazards</b>	None
<b>Special Precautions for User</b>	None

### International Maritime Dangerous Goods (IMDG)

<b>UN Number</b>	Not regulated
<b>UN Proper Shipping Name</b>	Not regulated
<b>UN Transport Hazard Class(es)</b>	None
<b>Packing Group</b>	None
<b>Environmental Hazards</b>	None
<b>Special Precautions for User</b>	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<b>UN Number</b>	Not regulated
<b>UN Proper Shipping Name</b>	Not regulated
<b>UN Transport Hazard Class(es)</b>	None
<b>Packing Group</b>	None
<b>Environmental Hazards</b>	None
<b>Special Precautions for User</b>	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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<b>Bulk Name</b>	Not Applicable
<b>Ship Type</b>	Not Applicable
<b>Pollution Category</b>	Not Applicable

## SECTION 15: Regulatory Information

### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

#### SARA Section 313 Toxic Chemicals:

13446-18-9	Magnesium nitrate hexahydrate	Listed
10377-66-9	Manganese dinitrate	Listed
7779-88-6	Zinc nitrate	Listed

#### CERCLA:

10377-66-9	Manganese dinitrate	Listed	
7779-88-6	Zinc nitrate	Listed	1000 lbs

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

#### Massachusetts Right to Know:

13446-18-9	Magnesium nitrate hexahydrate	Listed
7779-88-6	Zinc nitrate	Listed

#### New Jersey Right to Know:

12280-03-4	disodium; boron; oxygen(2-); tetrahydrate	Listed
13446-18-9	Magnesium nitrate hexahydrate	Listed
10377-66-9	Manganese dinitrate	Listed
7779-88-6	Zinc nitrate	Listed

#### New York Right to Know:

13446-18-9	Magnesium nitrate hexahydrate	Listed
10377-66-9	Manganese dinitrate	Listed
7779-88-6	Zinc nitrate	Listed

#### Pennsylvania Right to Know:

13446-18-9	Magnesium nitrate hexahydrate	Listed
10377-66-9	Manganese dinitrate	Listed
7779-88-6	Zinc nitrate	Listed

**California Proposition 65:** None of the ingredients are listed.

**Additional information:** No additional information.

## SECTION 16: Other Information

### Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or

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information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its own tests of the Product to determine suitability of the Product for user's particular use.

**NFPA:** 0-0-0

**HMIS:** 0-0-0

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**End of Safety Data Sheet**