

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 12.04.2025

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### BRANDT Organiplex 4% Mn

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** BRANDT Organiplex 4% Mn

**Product code:** 25024

##### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** Agricultural/Horticultural Use- Organic Micronutrient Fertilizer

**Uses Advised Against:** Refer to product label

**Reasons Why Uses Advised Against:** 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

##### 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(s) Identification

##### GHS Classification:

Reproductive toxicity, category 2

##### Label elements

###### Hazard Pictograms:



**Signal Word:** Warning

##### Hazard statements:

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)

##### Precautionary Statements:

P201 Obtain special instructions before use

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

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

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

P405 Store locked up

P501 Dispose of contents/container to...

**Hazards Not Otherwise Classified:** None

### SECTION 3: Composition/Information on Ingredients

| Identification            | Name                             | Weight % |
|---------------------------|----------------------------------|----------|
| CAS Number:<br>12280-03-4 | Disodium Octaborate Tetrahydrate | 1-3      |

**Additional Information:** None

### SECTION 4: First Aid Measures

#### Description of First Aid 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 Swallowing:

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 affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth

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retardation, pre-term birth, birth defects and postnatal death.

#### Immediate Medical Attention and Special Treatment

##### Specific Treatment:

Not determined or not applicable.

##### 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 During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

#### Special Protective Equipment for Firefighters:

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).

#### Reference to Other Sections:

For personal protective equipment see Section 8. For disposal 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 thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

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#### 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 Octaborate Tetrahydrate | 12280-03-4 | 8-Hour TWA: 2 mg/m <sup>3</sup> (Borate compounds, inorganic, inhalable fraction)     |
|                       | Disodium Octaborate Tetrahydrate | 12280-03-4 | 15-Minute STEL: 6 mg/m <sup>3</sup> (Borate compounds, inorganic, inhalable fraction) |

#### 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).

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).

#### Personal Protection 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 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

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before reuse. Perform routine housekeeping.

## SECTION 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

|                                         |                                       |
|-----------------------------------------|---------------------------------------|
| Appearance                              | Blue liquid                           |
| Odor                                    | Not determined or not available.      |
| Odor threshold                          | Not determined or not available.      |
| pH                                      | 2.0-2.7                               |
| Melting point/freezing point            | Not determined or not available.      |
| Initial boiling point/range             | Not determined or not available.      |
| Flash point (closed cup)                | Not determined or not available.      |
| Evaporation rate                        | Not determined or not available.      |
| Flammability (solid, gas)               | Not determined or not available.      |
| Upper flammability/explosive limit      | Not determined or not available.      |
| Lower flammability/explosive limit      | Not determined or not available.      |
| Vapor pressure                          | Not determined or not available.      |
| Vapor density                           | Not determined or not available.      |
| Density                                 | 9.638 (9.388-9.889) lb/gal            |
| Relative density                        | 1.155 (1.125-1.185) g/cm <sup>3</sup> |
| Solubilities                            | Not determined or not available.      |
| Partition coefficient (n-octanol/water) | Not determined or not available.      |
| Auto/Self-ignition temperature          | Not determined or not available.      |
| Decomposition temperature               | Not determined or not available.      |
| Dynamic viscosity                       | Not determined or not available.      |
| Kinematic viscosity                     | Not determined or not available.      |
| Explosive properties                    | Not determined or not available.      |
| Oxidizing properties                    | Not determined or not available.      |

## 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:

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.

### 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

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#### Acute Toxicity

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

**Product Data:** No data available.

**Substance Data:**

| Name                             | Route      | Result                                  |
|----------------------------------|------------|-----------------------------------------|
| Disodium Octaborate Tetrahydrate | oral       | LD50 Rat: 2550 mg/kg                    |
|                                  | dermal     | LD50 Rabbit: >2000 mg/kg                |
|                                  | inhalation | LC50 Rat: >2.01 mg/L (4 hr [dust/mist]) |

#### Skin Corrosion/Irritation

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

**Product Data:**

No data available.

**Substance Data:** No data available.

#### 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 Octaborate Tetrahydrate | Causes serious eye irritation. |

#### 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.

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

| Name                             | Classification |
|----------------------------------|----------------|
| Disodium Octaborate Tetrahydrate | Not Applicable |

**National Toxicology Program (NTP):**

| Name                             | Classification |
|----------------------------------|----------------|
| Disodium Octaborate Tetrahydrate | 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.

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#### Reproductive Toxicity

##### Assessment:

Suspected of damaging fertility or the unborn child.

##### Product Data:

No data available.

##### Substance Data:

| Name                             | Result                                    |
|----------------------------------|-------------------------------------------|
| Disodium Octaborate 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:** No data available.

#### Specific Target Organ Toxicity (Repeated Exposure)

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

##### Product Data:

No data available.

**Substance Data:** No data available.

#### 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.

#### Other Information:

No data available.

### SECTION 12: Ecological Information

#### Acute (Short-Term) Toxicity

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

**Product Data:** No data available.

##### Substance Data:

| Name                             | Result                                                                                                       |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|
| Disodium Octaborate 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]) |

#### Chronic (Long-Term) Toxicity

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

**Product Data:** No data available.

**Substance Data:** No data available.

#### Persistence and Degradability

**Product Data:** No data available.

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#### Substance Data:

| Name                             | Result                                                                                                           |
|----------------------------------|------------------------------------------------------------------------------------------------------------------|
| Disodium Octaborate Tetrahydrate | 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 Octaborate Tetrahydrate | 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 Octaborate Tetrahydrate | Mobility in soil assessment not applicable 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 Octaborate Tetrahydrate | PBT assessment does not apply to inorganic compounds such as this substance. |
|----------------------------------|------------------------------------------------------------------------------|

##### vPvB assessment:

|                                  |                                                                               |
|----------------------------------|-------------------------------------------------------------------------------|
| Disodium Octaborate Tetrahydrate | vPvB assessment does not apply to inorganic compounds such as this substance. |
|----------------------------------|-------------------------------------------------------------------------------|

**Other Adverse Effects:** No data available.

### 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 packages:

Not determined or not applicable.

### SECTION 14: Transport Information

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

|                               |               |
|-------------------------------|---------------|
| UN Number                     | Not regulated |
| UN Proper Shipping Name       | Not regulated |
| UN Transport Hazard Class(es) | None          |
| Packing Group                 | None          |
| Environmental Hazards         | None          |
| Special Precautions for User  | None          |

#### International Maritime Dangerous Goods (IMDG)

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|                               |               |
|-------------------------------|---------------|
| UN Number                     | Not regulated |
| UN Proper Shipping Name       | Not regulated |
| UN Transport Hazard Class(es) | None          |
| Packing Group                 | None          |
| Environmental Hazards         | None          |
| Special Precautions for User  | None          |

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

|                               |               |
|-------------------------------|---------------|
| UN Number                     | Not regulated |
| UN Proper Shipping Name       | Not regulated |
| UN Transport Hazard Class(es) | None          |
| Packing Group                 | None          |
| Environmental Hazards         | None          |
| Special Precautions for User  | None          |

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

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

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

**New Jersey Right to Know:**

|            |                                  |        |
|------------|----------------------------------|--------|
| 12280-03-4 | Disodium Octaborate Tetrahydrate | Listed |
|------------|----------------------------------|--------|

**New York Right to Know:** None of the ingredients are listed.

**Pennsylvania Right to Know:** None of the ingredients are listed.

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

**Additional information:** Not determined.

## SECTION 16: Other Information

**Abbreviations and Acronyms:** None

### 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 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

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Product, and Manufacturer recommends that the user conducts its owns 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**