**SAFETY DATA SHEET**

**Tim-bor Professional®**

Health Emergencies: INFOTRAC® (800) 535-5053

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### 1. PRODUCT AND COMPANY INFORMATION

**Product Identity:** Tim-Bor Professional®

**Recommended use of the chemical and restrictions on use:**
Termiticide, Insecticide, and Fungicide Concentrate Powder. Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal law to use this product in a manner inconsistent to label directions.

**Manufacturer:** Nisus Corporation
100 Nisus Drive
Rockford, TN 37853

**Telephone:** Phone: (800) 264-0870
Fax: (865) 577-5825

**Emergency Phone:** 800-535-5053 (INFOTRAC®)

**SDS Date of Preparation:** 01/12/16

### 2. HAZARDS IDENTIFICATION

**GHS Classification:**
- Health
- Reproductive Toxicity Category 2

**GHS Label Elements:**

**Signal Word:** Warning!

**Statements of Hazard**
- H303: May be harmful if swallowed.
- H361: Suspected of damaging fertility or the unborn child.

**Precautionary Statements**
- P202: Do not handle until all safety precautions have been read and understood.
- P308+P313: If exposed or concerned: Get medical advice/attention.
- P501: Dispose of contents/container in accordance with local regulation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium Octaborate Tetrahydrate</td>
<td>12280-03-4</td>
<td>&gt;98%</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Description of necessary first aid measures:**
Protection of first-aiders: No special protective clothing is required.

**Inhalation:** If symptoms such as nose or throat irritation are observed, remove to fresh air.

**Eye contact:** Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

**Skin contact:** No treatment necessary.

**Ingestion:** Swallowing small quantities (one teaspoon) will cause no harm to healthy adults. If larger amounts are swallowed, give two glasses of water to drink and seek medical attention.

**Most important symptoms and effects both acute and delayed:** Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling (see Section 11).

**Indication of any immediate medical attention and special treatment needed:** Note to physicians: Supportive care only is required for adult ingestion of less than a few grams of the product. For ingestion of larger amounts, maintain fluid and electrolyte balance and maintain adequate kidney function. Gastric lavage is only recommended for heavily exposed, symptomatic patients in whom emesis has not emptied the stomach. Hemodialysis should be reserved for patients with massive acute absorption, especially for patients with compromised renal function. Boron analyses of urine or blood are only useful for verifying exposure and are not useful for evaluating severity of poisoning or as a guide in treatment.

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Use extinguishing media that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** None

**Special hazards arising from the chemical**
None. The product is not flammable, combustible or explosive.

**Special protective equipment and precautions for fire fighters:**
Not applicable. The product is itself a flame retardant.

### 6. ACCIDENTAL RELEASE MEASURES

**Precaution, protective equipment and emergency procedures**

**For non-emergency personnel:**
Eye goggles and gloves are not required for normal industrial exposures, but eye protection according to ANSI Z.87.1 or other national standard. Respirators should be considered if environment is excessively dusty.

**For emergency responders:**
Eye goggles and gloves are not required for normal industrial exposures, but eye protection according to ANSI Z.87.1 or other national standard. Respirators should be considered if environment is excessively dusty.

**Environmental precautions:** The product is a water-soluble white powder that may cause damage to trees or vegetation by root absorption. Avoid contamination of water bodies during clean up and disposal. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level or meets local water quality standards.

**Methods and material for containment and cleaning up:**
- **Appropriate containment:** Avoid spillage into water and cover drains.
- **Land spill:** Vacuum, shovel or sweep up and place in containers for disposal in accordance with applicable local regulations.
- **Spillage into water:** Where possible, remove any intact containers from the water.

**Reference to other sections**
Refer to sections 8, 12 and 13.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**
Good housekeeping procedures should be followed to minimize dust generation and accumulation. Avoid spills.

**Do not eat, drink and smoke in work areas.** Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**Nonrefillable container. Do not reuse containers.** Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for safe storage, including any incompatibilities**
No special handling precautions are required, but dry, indoor storage is recommended. To maintain package integrity and to minimize caking of the product, bags should be handled on a first-in first-out basis.

**Storage temperature:** Ambient

**Storage pressure:** Atmospheric

**Special sensitivity:** Moisture (Caking)
available data, the classification criteria are not met.

No evidence of carcinogenicity (based on boric acid). Based on the available data, the classification criteria are not met.

Not mutagenic (based on boric acid). Based on the available data, the classification criteria are not met.

Germ cell mutagenicity: Not mutagenic (based on boric acid). Based on the available data, the classification criteria are not met.

(f) Carcinogenicity: Method: OECD 451 equivalent.

No evidence of carcinogenicity (based on boric acid). Based on the available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>OSHA/PEL (total dust)</th>
<th>15 mg/m³</th>
<th>Particulate Not Otherwise Classified or Nuisance Dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA/PEL (respirable dust)</td>
<td>5 mg/m³</td>
<td>Particulate Not Otherwise Classified or Nuisance Dust</td>
</tr>
<tr>
<td>Cal OSHA/PEL</td>
<td>5 mg/m³</td>
<td>Particulate Not Otherwise Classified or Nuisance Dust</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

- Appearance: White, crystalline solid
- Odor: Odorless
- Odor threshold: Not applicable
- pH @ 20°C: 8.3 (3.0% solution); 7.6 (10.0% solution)
- Melting point/Freezing point: 815°C
- Initial boiling point and boiling range: Not applicable.

10. STABILITY AND REACTIVITY

Reactivity: None known.

Chemical Stability: Under normal ambient temperatures (-40°C to +40°C), the product is stable.

Possibility of Hazardous Reactions: Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas which could create an explosive hazard.

Conditions to Avoid: Avoid contact with strong reducing agents by storing according to good industrial practice.

Incompatible Materials: Strong reducing agents.

Hazardous Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):

(a) Acute toxicity

Acute Oral Toxicity Study – OECD Guidelines 401

Low acute oral toxicity. LD₅₀ in male rats is 2,550 mg/kg.

Classification: Acute Toxicity (Oral) Category 5 (Hazard statement: H303: May be harmful if swallowed)

Acute Dermal Toxicity Study – similar to OECD Guideline 402

Low acute dermal toxicity. LD₅₀ in rabbits is > 2,000 mg/kg.

Acute Inhalation Toxicity Study – OECD Guideline 403

Low acute inhalation toxicity. LC₅₀ in rats is > 2.0 mg/l (or g/m³).

(b) Skin corrosion/irritation:

No skin irritation in rabbits. Mean Primary Irritation Score: 0.5. Based on the available data for the hydrated forms of sodium tetraborate, the classification criteria are not met.

(c) Serious eye damage/irritation:

Eye Irritation Study – similar to OECD Guideline 405

Results: Not irritating to eyes. Induced slight iris, conjunctivae redness and chemosis, reversible after 4-7 days with a return to near normal by 7 days after exposure.

Classification: Based on mean scores of ≤ 1, and the effects were fully reversible within 7 days, the classification criteria are not met.

(d) Respiratory or skin sensitization:

Buehler Test – OECD Guideline 406

Not a skin sensitizer. No respiratory sensitization studies have been conducted. There are no data to suggest that boric acid or sodium borates are respiratory sensitizers. Based on the available data, the classification criteria are not met.

(e) Germ cell mutagenicity:

Not mutagenic (based on boric acid). Based on the available data, the classification criteria are not met.

(f) Carcinogenicity:

Method: OECD 451 equivalent.

No evidence of carcinogenicity (based on boric acid). Based on the available data, the classification criteria are not met.

(g) Reproductive toxicity:

Method: Three-generation feeding study, similar to OECD 416 Two-Generation Study

NOAEL in rats for effects on fertility in males is 100 mg boric acid/kg bw equivalent to 17.5 mg B/kg bw.

Prenatal Developmental Toxicity Study of Boric Acid - OECD Guideline 414

Routes of Exposure: Oral feeding study

NOAEL in rats for developmental effects on the fetus including fetal weight loss and minor skeletal variations is 55 mg boric acid/kg.

Reproductive Toxicity Category 2 (Hazard statement: H361: Suspected of damaging fertility or the unborn child.)

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available):

Note that the data values are expressed as boron equivalents. To convert to this product divide the boron equivalent by 0.21.

Freshwater—Chronic Studies

<table>
<thead>
<tr>
<th>Taxonomic Group</th>
<th>Number of Taxa Tested</th>
<th>Range of Endpoint Values (geometric NOEC/EC₅₀)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algal</td>
<td>4</td>
<td>10 mg B/L (Chlorella pyrenoidosa) to 50 mg B/L (Anacystis nidulans)</td>
</tr>
<tr>
<td>Higher plants</td>
<td>3</td>
<td>4.0 mg B/L (Phragmites australis) to 60 mg B/L (Lemma minor)</td>
</tr>
<tr>
<td>Invertebrate and protozoan</td>
<td>7</td>
<td>5.7 mg B/L (Daphnia magna) to 32 mg B/L (Chironomus riparius)</td>
</tr>
<tr>
<td>Fish</td>
<td>6</td>
<td>2.9 mg B/L (Micropterus salmoides) to 17 mg B/L (Carassius auratus)</td>
</tr>
<tr>
<td>Amphibian</td>
<td>2</td>
<td>29 mg B/L (Rana pipiens) to 41 mg B/L (Bufo fowleri)</td>
</tr>
</tbody>
</table>

Based on the acute data for freshwater species, this substance is not classified as hazardous to the environment.

Marine and Estuary—Chronic Studies

<table>
<thead>
<tr>
<th>Taxonomic Group</th>
<th>Number of Taxa Tested</th>
<th>Range of Endpoint Values (geometric NOEC/EC₅₀)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algal</td>
<td>19</td>
<td>5 mg B/L (Emiliana huxleyi) to &gt;100 mg B/L (Agnemellum quadruplicatum, Anacystis marina, Thallassium pseudonana)</td>
</tr>
</tbody>
</table>

Marine and Estuary—Acute Studies

<table>
<thead>
<tr>
<th>Taxonomic Group</th>
<th>Number of Taxa Tested</th>
<th>Range of Endpoint Values (geometric EC/LC₅₀)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invertebrate</td>
<td>3</td>
<td>45 mg B/L (Lithopeneaus vannami) to 83 mg B/L (Americamysis bahia)</td>
</tr>
<tr>
<td>Fish</td>
<td>2</td>
<td>74 mg B/L (Limanda limanda) to 600 mg B/L (Oncorhynchus tschawytscha)</td>
</tr>
</tbody>
</table>

No data are available for algal species.

Sediment

<table>
<thead>
<tr>
<th>Taxonomic Group</th>
<th>Number of Taxa Tested</th>
<th>Range of Endpoint Values (geometric EC/LC₅₀)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invertebrate</td>
<td>1</td>
<td>82.4 mg B/kg sediment dw (Chironomus riparius)</td>
</tr>
</tbody>
</table>

Results: Although limited, the data suggest that sediment organisms are within range of toxicity of aquatic organisms. In addition, the substance will not partition to the sediment, so a sediment/water partitioning approach is justified.
Following is the hazard information as required on the pesticide label:

**CAUTION**

- Causes moderate eye irritation.
- Harmful if swallowed.
- Avoid contact with eyes or clothing.
- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Superfund: CERCLA/SARA.** This product is not listed under CERCLA (Comprehensive Environmental Response Compensation and Liability Act) or its 1986 amendments, SARA (Superfund Amendments and Reauthorization Act), including substances listed under Section 313 of SARA, Toxic Chemicals, 42 USC 11023, 40 CFR 372.65, Section 302 of SARA, Extremely Hazardous Substances, 42 USC 11002, 40 CFR 355, or the CERCLA Hazardous Substances list, 42 USC 9604, 40 CFR 302.

**Safe Drinking Water Act (SDWA):** This product is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 et seq. Consult state and local regulations for possible water quality advisories regarding boron compounds.

**Clean Water Act (CWA) (Federal Water Pollution Control Act):** 33 USC 1251 et seq.
- a) This product is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33 USC 1314.
- b) It is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 129.
- c) It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

**FIFRA Labeling:** Tim-Bor Professional
EPA Reg. No. 64405-8
Keep Out of Reach of Children
CAUTION
PRECAUTIONARY STATEMENTS
Hazards to Humans & Domestic Animals
CERCLA: Report all spills in accordance with local, state, and federal regulations.
SARA Hazard Category (311/312): Acute Health, Chronic Health
SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): Ethylene Glycol 107-21-1 40-50%
EPA TSCA Inventory: This product is regulated under FIFRA, thus exempt.
IARC: The International Agency for Research on Cancer (IARC) (a unit of the World Health Organization) does not list or categorize this product as a carcinogen.
NTP Biennial Report on Carcinogens: This product is not listed.
OSHA carcinogen: This product is not listed.
California Proposition 65: This product is not listed on the Proposition 65 list of carcinogens or reproductive toxins.

**16. OTHER INFORMATION**

- **NFPA Rating:** Health = 0 Flammability = 0 Reactivity = 0
- **HMIS Rating:** Health = 1* Flammability = 0 Reactivity = 0
- **Chronic Effects**
- **SDS Revision History:** 04/28/15: New SDS 01/12/16: Revised

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