

# Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 1 of 11

**BRANDT Smart B**

## SECTION 1: Identification

### Product identifier

**Product name:** BRANDT Smart B

**Product code:** 29009BRN

### Recommended use of the product and restriction on use

**Relevant identified uses:** Micronutrient fertilizer

**Uses advised against:** Refer to product use

**Reasons why uses advised against:** Not determined or not applicable.

### 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 identification

### Classification in accordance with Canadian Hazardous Products Regulations (HPR) SOR/2022-272:

Skin irritation, category 2  
Eye irritation, category 2A  
Reproductive toxicity, category 1B  
Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

### Label elements

**Hazard pictogram(s):**



**Signal Word:** Danger

### Hazard statements:

H315 Causes skin irritation  
H319 Causes serious eye irritation  
H360 May damage fertility or the unborn child.  
H335 May cause respiratory irritation

# Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 2 of 11

## BRANDT Smart B

### Precautionary statements:

- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust, fumes, gas, mist, vapours or spray.
- P271 Use only outdoors or in a well-ventilated area.
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P332+P313 If skin irritation occurs: Get medical attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P308+P313 If exposed or concerned: Get medical attention.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER 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 attention.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

### Health Hazards Not Otherwise Classified (HHNOC):

None

### Physical Hazards Not Otherwise Classified (PHNOC):

None

## SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 10043-35-3	Boric acid	25-30

**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 experiencing respiratory symptoms, seek medical advice/attention.

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at

## Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 3 of 11

### BRANDT Smart B

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.

Rinse eyes with plenty of gently flowing lukewarm water for 15 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:

Skin contact may result in redness, pain, burning and inflammation.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

#### Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

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

### Immediate medical attention and special treatment

#### Specific treatment:

If respiratory symptoms persist, seek medical attention.

#### Notes for the doctor:

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media:

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

#### Unsuitable extinguishing media:

## Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 4 of 11

### BRANDT Smart B

Do not use water jet.

#### Specific hazards arising from the product:

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.

#### 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.

## Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of  
GHS Revision 8

Initial preparation date: 06.02.2026

Page 5 of 11

### BRANDT Smart B

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Ontario	Boric acid	10043-35-3	8-Hour TWA: 2 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)
	Boric acid	10043-35-3	15-Minute STEL: 6 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)
British Columbia	Boric acid	10043-35-3	8-Hour TWA: 2 mg/m <sup>3</sup> (inhalable Borate compounds, inorganic)
	Boric acid	10043-35-3	15-Minute STEL: 6 mg/m <sup>3</sup> (inhalable Borate compounds, inorganic)
Quebec	Boric acid	10043-35-3	8-Hour TWA: 2 mg/m <sup>3</sup> (inhalable dust Borate, inorganic compounds)
	Boric acid	10043-35-3	15-Minute STEL: 6 mg/m <sup>3</sup> (inhalable dust Borate, inorganic compounds)
Manitoba	Boric acid	10043-35-3	8-Hour TWA: 2 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)
	Boric acid	10043-35-3	15-Minute STEL: 6 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)
New Brunswick	Boric acid	10043-35-3	8-Hour TWA: 2 mg/m <sup>3</sup> (inhalable fraction Borate compounds, inorganic)
	Boric acid	10043-35-3	15-Minute STEL: 6 mg/m <sup>3</sup> (inhalable fraction Borate compounds, inorganic)
Saskatchewan	Boric acid	10043-35-3	8-Hour Contamination Limit: 2 mg/m <sup>3</sup> (inhalable fraction Borate compounds, inorganic)
	Boric acid	10043-35-3	15-Minute Contamination Limit: 6 mg/m <sup>3</sup> (inhalable fraction Borate compounds, inorganic)
Nova Scotia	Boric acid	10043-35-3	8-Hour TWA: 2 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)
	Boric acid	10043-35-3	15-Minute STEL: 6 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)
Newfoundland and Labrador	Boric acid	10043-35-3	8-Hour TWA: 2 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)
	Boric acid	10043-35-3	15-Minute STEL: 6 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)
Prince Edward Island	Boric acid	10043-35-3	8-Hour TWA: 2 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)

## Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 6 of 11

### BRANDT Smart B

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Boric acid	10043-35-3	15-Minute STEL: 6 mg/m <sup>3</sup> (inhalable particulate matter Borate compounds, inorganic)

#### 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 (PPE)

##### 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 before reuse. Perform routine housekeeping.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical State:	Aqueous solution
Color:	Colorless to light yellow
Odor:	Not determined or not available.
pH-value:	5.5-6.5
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	Not determined or not available.
Flash point:	Not determined or not available.

## Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 7 of 11

### BRANDT Smart B

<b>Flammability (solid, gaseous):</b>	Not determined or not available.
<b>Explosion limit upper:</b>	Not determined or not available.
<b>Explosion limit lower:</b>	Not determined or not available.
<b>Vapor pressure:</b>	Not determined or not available.
<b>Density:</b>	Not determined or not available.
<b>Relative density:</b>	1.24-1.30 g/cm <sup>3</sup> (10.35-10.85 lb/gal)
<b>Solubilities:</b>	Not determined or not available.
<b>Partition coefficient (n-octanol/water):</b>	Not determined or not available.
<b>Auto/Self-ignition temperature:</b>	Not determined or not available.
<b>Decomposition temperature:</b>	Not determined or not available.
<b>Kinematic viscosity:</b>	Not determined or not available.
<b>Relative vapor density:</b>	Not determined or not available.
<b>Particle characteristics:</b>	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:

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

#### Acute toxicity

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

**Product data:** No data available.

#### Substance data:

Name	Route	Result
Boric acid	oral	LD50 Rat: 3450 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: > 2.12 mg/L (4 hr [dust])

#### Skin corrosion/irritation

**Assessment:**

## Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 8 of 11

### BRANDT Smart B

Causes skin irritation.

**Product data:**

No data available.

**Substance data:** No data available.

#### Serious eye damage/irritation

**Assessment:**

Causes serious eye irritation.

**Product data:**

No data available.

**Substance data:** No data available.

#### 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
Boric acid	Not Applicable

#### National Toxicology Program (NTP):

Name	Classification
Boric acid	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:**

May damage fertility or the unborn child.

**Product data:**

No data available.

**Substance data:**

Name	Result
Boric acid	May damage fertility or the unborn child.

#### Specific target organ toxicity (single exposure)

**Assessment:**

May cause respiratory irritation.

**Product data:**

No data available.

# Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 9 of 11

## BRANDT Smart B

**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 additional information

## 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
Boric acid	Fish LC50 Pimephales promelas: 79.7 mg/L (96 hr)
	Aquatic Plants EC50 Freshwater algae: 66 mg/L (72 hr [growth rate])

### Chronic (long-term) toxicity

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

**Product data:** No data available.

**Substance data:**

Name	Result
Boric acid	Fish NOEC Pimephales promelas: 11.2 mg/L (32d [mortality])
	Aquatic Invertebrates NOEC Americamysis bahia: 33.1 mg/L (28d [growth; mortality])

### Persistence and degradability

**Product data:** No data available.

**Substance data:**

Name	Result
Boric acid	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

### Bioaccumulative potential

**Product data:** No data available.

**Substance data:**

## Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 10 of 11

### BRANDT Smart B

Name	Result
Boric acid	Highly water soluble materials are unlikely to bioaccumulate to any significant degree. Borates all present essentially as undissociated and highly soluble boric acid at neutral pH. The available data indicate that both experimental data and field observations support the interpretation that borates are not significantly bioaccumulated.

#### Mobility in soil

**Product data:** No data available.

**Substance data:**

Name	Result
Boric acid	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:**

Boric acid	The PBT assessment does not apply to inorganic substances.
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**vPvB assessment:**

Boric acid	The vPvB assessment does not apply to inorganic substances.
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**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 packages:

Not determined or not applicable.

### SECTION 14: Transport information

#### Canadian Transportation of Dangerous Goods (TDG)

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) Code

UN number	Not regulated
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## Safety Data Sheet

According to Canadian Hazardous Products Regulations SOR/2022-272, GHS Revision 7 and certain provisions of GHS Revision 8

Initial preparation date: 06.02.2026

Page 11 of 11

### BRANDT Smart B

<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

### SECTION 15: Regulatory information

#### Canada regulations

**Domestic substances list (DSL):** All ingredients are listed or exempt.

**Non-domestic substances list (NDSL):** None of the ingredients are listed.

**Additional information:** No additional information.

### 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 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.

Initial preparation date: 06.02.2026

End of Safety Data Sheet