BORPOWER®
POWERAG™

SAFETY DATA SHEET
according to Federal Register Vol. 77, No. 58
Monday, March 26, 2012
Rules and Regulations

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product form: Mixture
Product name: BorPower
Product code: 80278

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

PowerAG
2213 Leabrook Road, Lancaster PA 17601
1-800-842-2578 powerag.com

1.4. Emergency telephone number

Emergency number: 1-800-424-9300 ChemTrec

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq.: Not classified.
Skin Irrit.: Not classified.
Aquatic Acute 3: H402

2.2. Label elements

GHS-US labeling

Hazard statements (GHS-US):

H402: Harmful to aquatic life.

Precautionary statements (GHS-US):

P273: Avoid release to the environment.
P501: Dispose of contents/container to . . .

2.3. Other hazards

No additional information available.

2.4. Unknown acute toxicity (GHS-US)

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable.
Full text of H-phrases: See section 16.

3.2. Mixture

Name	Product identifier	%	GHS-US classification
boric acid	(CAS No)10043-35-3	25–75	Aquatic Acute 3, H402

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Foam, dry powder, carbon dioxide, water spray, or sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity: Thermal decomposition generates corrosive vapors.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing.

Hygiene measures: Wash . . . thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

Storage temperature: >= 25 (5–42) °C

7.3. Specific end use(s)

No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

boric acid (10043-35-3)

USA ACGIH | ACGIH TWA (mg/m³) | 2 mg/m³

USA ACGIH | ACGIH STEL (mg/m³) | 6 mg/m³

8.2. Exposure controls

Personal protective equipment: Avoid all unnecessary exposure.
Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or face shield.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: Wear appropriate mask.
Other information: Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Color: Brown
Odor: Characteristic odor
Odor threshold: No data available.
pH: >= 8.5
Relative evaporation rate (butylacetate=1): No data available.
Melting point: No data available.
Freezing point: <= 0 °C
Boiling point: >= 100 °C
Flash point: None
Self ignition temperature: No data available.
Decomposition temperature: No data available.
Flammability (solid, gas): No data available.
Vapor pressure: No data available.
Relative vapor density at 20 °C: No data available.
Relative density: No data available.
Density: 1.307 g/ml
Solubility: Soluble in water.
Log Pow: No data available.
Log Kow: No data available.
Viscosity, kinematic: No data available.
Viscosity, dynamic: No data available.
Explosive properties: No data available.
Oxidizing properties: No data available.
Explosive limits: No data available.

9.2. Other information

VOC content: <= 10 g/l

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Thermal decomposition generates: Corrosive vapors.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates corrosive vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: Not classified.

boric acid (10043-35-3)

LD50 oral rat: 2660 mg/kg (>2600 mg/kg bodyweight; Rat; Rat; Experimental value).

LD50 dermal rabbit: > 2000 mg/kg (Rabbit; Experimental value,Rabbit; Experimental value).

Skin corrosion/irritation: Not classified.
pH: >= 8.5

Serious eye damage/irritation: Not classified.
pH: >= 8.5

Respiratory or skin sensitization: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity (single exposure): Not classified.

Specific target organ toxicity (repeated exposure): Not classified.

Aspiration hazard: Not classified.

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - water: Harmful to aquatic life.

boric acid (10043-35-3)

LC50 fishes 1: 100 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Soft water).

EC50 Daphnia 1: 658–875 mg/l (48 h; Daphnia magna).

LC50 fish 2: 79 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water).

EC50 Daphnia 2: 19.7 mg/l (336 h; Daphnia magna).

TLM fish 1: 1800 ppm (24 h; Gambusia affinis).

Threshold limit algae 1: 5 mg/l (672 h; Elodea sp.).

Threshold limit algae 2: 0.4–0.8, 336 h; Chlorella sp.; Growth.

12.2. Persistence and degradability

BorPower

Persistence and degradability: Not established.

boric acid (10043-35-3)

Persistence and degradability: Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test) data on mobility of the substance available.

Biochemical oxygen demand (BOD): Not applicable.

Chemical oxygen demand (COD): Not applicable.

ThOD: Not applicable.

BOD (% of ThOD): Not applicable.

12.3. Bioaccumulative potential

BorPower

Bioaccumulative potential: Not established.

boric acid (10043-35-3)

BCF fish 1: 0 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)

BCF fish 2: < 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight)

Log Pow: -1.09 (Experimental value; 22 °C,Experimental value; 22 °C)

boric acid (10043-35-3)

Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

boric acid (10043-35-3)

Ecology—soil: May be harmful to plant growth, blooming and fruit formation.

12.5. Other adverse effects

Other information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecology—waste materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In accordance with DOT.
No dangerous goods in sense of transport regulations.
Additional information:
Other information: No supplementary information available.
ADR: Transport document description.
Transport by sea: No additional information available.
Air transport: No additional information available.

SECTION 15: REGULATORY INFORMATION

15.1. US Federal regulations

boric acid (10043-35-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.

15.2. International regulations

CANADA: No additional information available.
EU-Regulations: No additional information available.
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified.

15.2.2. National regulations

No additional information available.

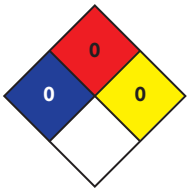
15.3. US State regulations

No additional information available.

SECTION 16: OTHER INFORMATION

Other information: None
Full text of H-phrases: See section 16:
Aquatic Acute 3: Hazardous to the aquatic environment—AcuteHazard, Category 3.
Flam. Liq. Not classified: Flammable liquids—Not classified.
Skin Irrit. Not classified: Skin corrosion/irritation—Not classified.
H402: Harmful to aquatic life.

NFPA health hazard: 0—Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard: 0—Materials that will not burn.
NFPA reactivity: 0—Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard: None



HMIS III Rating

Health: 0 Minimal Hazard—No significant risk to health.
Flammability: 0 Minimal Hazard.
Physical: 0 Minimal Hazard.
Personal Protection: C

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.