* * * Section 1 - PRODUCT AND COMPANY IDENTIFICATION* * *

Material Name: BORIC ACID

BASSTECH INTERNATIONAL LLC
300 Grand Avenue
Englewood, NJ 07631
Phone: (201) 569-8686
Fax: (201) 569-7511
Email: info@basstechintl.com

Chemical Family
acids, inorganic

* * * Section 2 - HAZARDS IDENTIFICATION* * *

EMERGENCY OVERVIEW
Physical Form: solid
Health Hazards: respiratory tract irritation, skin irritation, central nervous system depression, kidney damage

POTENTIAL HEALTH EFFECTS

Inhalation
Short Term: same as effects reported in short term ingestion, irritation, symptoms of drunkenness
Long Term: kidney damage

Skin Contact
Short Term: same as effects reported in short term ingestion, irritation, symptoms of drunkenness
Long Term: visual disturbances, kidney damage

Eye Contact
Short Term: no information on significant adverse effects
Long Term: no information is available

Ingestion
Short Term: blisters, digestive disorders, irregular heartbeat, headache, drowsiness, symptoms of drunkenness, disorientation, visual disturbances, bluish skin color, convulsions, coma
Long Term: rash, vomiting, kidney damage
** * Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component / EC#</th>
<th>Percent</th>
<th>Symbol(s)</th>
<th>Risk Phrase(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11113-50-1</td>
<td>BORIC ACID 234-343-4</td>
<td>100.0</td>
<td>T</td>
<td>R:60-61</td>
</tr>
</tbody>
</table>

** * Section 4 - FIRST AID MEASURES* * *

** Inhalation**
If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

** Skin**
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

** Eyes**
Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

** Ingestion**
If a large amount is swallowed, get medical attention.

** * Section 5 - FIRE FIGHTING MEASURES* * *

See Section 9 for Flammability Properties

** NFPA Ratings:**
Health: 2 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

** Flammable Properties**
Negligible fire hazard.

** Extinguishing Media**
Use extinguishing agents appropriate for surrounding fire.

** Fire Fighting Measures**
Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

** * Section 6 - ACCIDENTAL RELEASE MEASURES* * *

** Occupational spill/release**
Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.
**Section 7 - HANDLING AND STORAGE**

**Storage Procedures**
Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

**BORIC ACID (10043-35-3)**

**ACGIH:**
- 2 mg/m³ TWA (inhalable fraction)
- 6 mg/m³ STEL (inhalable fraction)

**Exposure Limits for Chemicals which may be generated during processing**
This material has no components listed.

**Ventilation**
Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes/face**
Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Protective Clothing**
Wear appropriate chemical resistant clothing.

**Glove Recommendations**
Wear appropriate chemical resistant gloves.

**Respiratory Protection**
Under conditions of frequent use or heavy exposure, respiratory protection may be needed.
Respiratory protection is ranked in order from minimum to maximum.
Consider warning properties before use.
Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100 or P100.
Any air-purifying full-facepiece respirator equipped with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100 or P100.
Any powered, air-purifying respirator with a high-efficiency particulate filter.
Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter.
Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.

**For Unknown Concentrations or Immediately Dangerous to Life or Health -**
Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.
Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.
**Section 9 - Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Physical State: Solid</th>
<th>Appearance: Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form: solid</td>
<td>Odor: Not Available</td>
</tr>
<tr>
<td>Odor Threshold: Not available</td>
<td>Melting Point: Not available</td>
</tr>
<tr>
<td>Boiling Point: Not applicable</td>
<td>Vapor Pressure: Not applicable</td>
</tr>
<tr>
<td>Vapor Density (air = 1): Not applicable</td>
<td>Density: Not available</td>
</tr>
<tr>
<td>Specific Gravity (water = 1): Not available</td>
<td>Water Solubility: Not available</td>
</tr>
<tr>
<td>Coeff. Water/Oil Dist: Not available</td>
<td>Molecular Weight: 61.84</td>
</tr>
<tr>
<td>Molecular Formula: H3-B-O3</td>
<td></td>
</tr>
</tbody>
</table>

**Section 10 - Stability and Reactivity**

**Chemical Stability**
Stable at normal temperatures and pressure.

**Conditions to Avoid**
None reported.

**Incompatible Materials**
metals

BORIC ACID:
ACETIC ANHYDRIDE: Explosive reaction on heating.
IRON: May be corrosive in presence of moisture.
POTASSIUM: Possible violent or explosive reaction.

**Hazardous Decomposition Products**
inorganic acids, anhydrides

Thermal decomposition above 160 C releases meta-boric acid, pyroboric acid, boric anhydride.

**Possibility of Hazardous Reactions**
Will not polymerize.

**Section 11 - Toxicological Information**

**Component Analysis - LD50/LC50**
The components of this material have been reviewed in various sources and the following selected endpoints are published:
BORIC ACID (10043-35-3)  
Oral LD50 Rat 2660 mg/kg; Inhalation LC50 Rat >0.16 mg/L 4 h; Dermal LD50 Rabbit >2000 mg/kg

RTECS Acute Toxicity (selected)  
The components of this material have been reviewed, and RTECS publishes the following endpoints:

BORIC ACID (10043-35-3)  
Oral: 2500 mg/kg Oral Rat LD50; 2660 mg/kg Oral Rat LD50

Acute Toxicity Level BORIC ACID (10043-35-3)  
Moderately ingestion

Component Carcinogenicity BORIC ACID (10043-35-3)  
ACGIH: A4 - Not Classifiable as a Human Carcinogen

RTECS Irritation  
The components of this material have been reviewed, and RTECS publishes the following endpoints:

BORIC ACID (10043-35-3)  
15 mg/3 day(s) intermittent Skin Human mild

Local Effects  
BORIC ACID (11113-50-1)  
Irritant: inhalation, skin  
BORIC ACID (10043-35-3) Irritant:  
inhalation, skin

Target Organs  
BORIC ACID (11113-50-1)  
central nervous system, kidneys

RTECS Mutagenic  
The components of this material have been reviewed, and RTECS publishes the following endpoints:

BORIC ACID (10043-35-3)  
17000 ppm/24 hour Escherichia coli (-S9)

RTECS Reproductive Effects  
The components of this material have been reviewed, and RTECS publishes the following endpoints:
BORIC ACID (10043-35-3)

500 mg/kg Oral Mammal - species unspecified TDLo (pregnant 10 day(s)); 1000 mg/kg
Intraperitoneal Mouse TDLo (pregnant 8 day(s)); 152 mg/kg
Oral Mouse TDLo (Multigeneration); 21.063 gm/kg Oral Mouse TDLo (pregnant 0-21
day(s)); 2500 mg/kg Oral Mouse TDLo (pregnant 6-10 day (s)); 1500 mg/kg Oral Mouse
TDLo (pregnant 6-8 day(s)); 750 mg/kg Oral Mouse TDLo (pregnant 8 day(s)); 1500 mg/kg
Oral Mouse TDLo (pregnant 8 day(s)); 2400 mg/kg Oral Mouse TDLo (pregnant 6-8 day(s)); 22.26 gm/kg Oral Mouse
TDLo (male 7 day(s), prior to copulation 7 day(s), pregnant 21 day(s)); 93.5 gm/kg Oral
Mouse TDLo (prior to copulation 15 week, post 3 week, continuous); 152 mg/kg Oral Mouse
TDLo

(Multigeneration); 152 mg/kg Oral Mouse TDLo (Multigeneration); 800
mg/kg Oral Mouse TDLo (pregnant 7 day(s)); 2500 mg/kg Oral Mouse TDLo (pregnant 6-10 day(s)); 7684 mg/kg Oral Mouse TDLo (pregnant 1-
17 day(s)); 9492 mg/kg Oral Mouse TDLo (pregnant 0-21 day(s)); 93.5
gm/kg Oral Mouse TDLo (male 21 week); 8136 mg/kg Oral Mouse TDLo
(pregnant 1-18 day(s)); 136080 mg/kg Oral Mouse TDLo

(Multigeneration); 18054 mg/kg Oral Mouse TDLo (pregnant 1-18 day(s));
17051 mg/kg Oral Mouse TDLo (pregnant 1-17 day(s)); 800 mg/kg Oral
Mouse TDLo (pregnant 7 day(s)); 3500 mg/kg Oral Rabbit TDLo (pregnant
6-19 day(s)); 3500 mg/kg Oral Rabbit TDLo (pregnant 6-19 day(s)); 3500
mg/kg Oral Rabbit TDLo (pregnant 6-19 day(s)); 3500 mg/kg Oral Rabbit
TDLo (pregnant 7-20 day(s)); 3500 mg/kg Oral Rabbit TDLo (pregnant 6-
19 day(s)); 1750 mg/kg Oral Rabbit TDLo (pregnant 7-20 day(s)); 875
mg/kg Oral Rabbit TDLo (pregnant 6-19 day(s)); 3500 mg/kg Oral Rabbit
TDLo (pregnant 6-19 day(s)); 9600 ug/m3 Inhalation Rat TCLo (4 hour,
male 16 week); 3000 mg/kg Oral Rat TDLo (pregnant 6-11 day(s)); 2196
mg/kg Oral Rat TDLo (pregnant 14-17 day(s)); 4312 mg/kg Oral Rat TDLo
(pregnant 14-17 day(s)); 6468 mg/kg Oral Rat TDLo (pregnant 14-17 day
(s)); 5490 mg/kg Oral Rat TDLo (pregnant 6-15 day(s)); 600 mg/kg Oral
Rat TDLo (pregnant 6-11 day(s)); 250 mg/kg Oral Rat TDLo (pregnant
10 day(s)); 1000 mg/kg Oral Rat TDLo (pregnant 10 day(s)); 1560 mg/kg Oral
Rat TDLo (pregnant 1-20 day(s)); 3680 mg/kg Oral Rat TDLo (pregnant
6-15 day(s)); 750 mg/kg Oral Rat TDLo (pregnant 10 day(s)); 2000 mg/kg
Oral Rat TDLo (pregnant 6-15 day(s)); 2830 mg/kg Oral Rat TDLo
(pregnant 6-15 day(s)); 1600 mg/kg Oral Rat TDLo (pregnant 6-9 day(s));
5390 mg/kg Oral Rat TDLo (pregnant 6-15 day(s)); 6600 mg/kg Oral Rat
TDLo (pregnant 1-21 day(s)); 45 gm/kg Oral Rat TDLo (male 90 day(s));
5390 mg/kg Oral Rat TDLo (pregnant 6-15 day(s)); 1596 mg/kg Oral Rat
TDLo (pregnant 0-20 day(s)); 1716 mg/kg Oral Rat TDLo (pregnant 0-22
day(s)); 5000 mg/kg Oral Rat TDLo (pregnant 5-9 day(s)); 5000 mg/kg
Oral Rat TDLo (pregnant 6-10 day(s)); 3260 mg/kg Oral Rat TDLo
(pregnant 1-20 day(s)); 1000 mg/kg Oral Rat TDLo (pregnant 10 day(s));
76 mg/kg Oral Rat TDLo (pregnant 20 day(s)); 7684 mg/kg Oral Rat TDLo
(pregnant 1-17 day(s)); 17.1 gm/kg Oral Rat TDLo (pregnant 1-17 day(s));
1000 mg/kg Oral Rat TDLo (pregnant 9 day(s)); 52 mg/kg Oral Rat TDLo
(male 26 week); 2990 mg/kg Oral Rat TDLo (pregnant 6-15 day(s)); 2990
mg/kg Oral Rat TDLo (pregnant 6-15 day(s))

Additional Data
May cross the placenta.

Inhalation - Acute Exposure
BORIC ACID: May cause irritation to the mucous membranes, sore throat, and coughing. Absorption through the
Inhalation - Chronic Exposure
BORIC ACID: Workers exposed to dust levels >31 mg/m3 showed atrophic and subatrophic changes of respiratory mucous membranes. Prolonged inhalation may cause poisoning as described in chronic ingestion. Reproductive effects have been reported in animals.

Skin Contact - Chronic Exposure
BORIC ACID: Repeated or prolonged contact may cause dermatitis. Studies indicate prolonged skin absorption may cause hallucinations, decrease of visual acuity, and diplopia. Other systemic effects may occur as described in chronic ingestion.

Eye Contact - Acute Exposure
BORIC ACID: Reported to be non-irritating to the eyes.

Eye Contact - Chronic Exposure
BORIC ACID: No data available.

Ingestion - Acute Exposure
BORIC ACID: Ingestion may cause nausea, epigastric pain, hemorrhagic gastritis, bloody vomit and diarrhea, weakness, lethargy, headache, restlessness, tremors and twitching of facial muscles and extremities, intermittent convulsions, and eventual central nervous system depression with confusion, drowsiness, and prostration. Shock may occur with cold, clammy skin, cyanosis, hypotension, tachycardia, weak pulse, delirium and coma. Death from circulatory failure, central nervous system depression or renal failure may occur immediately or in 4-7 days. Erythroderma may occur, followed by desquamation, excoriation, blistering, bullae, and lesions, typically located on the palms, soles, buttocks, and scrotum. The pharynx and tympanic membranes may also be affected. Kidney damage may be indicated by oliguria, albuminuria and anuria. Liver damage with jaundice and hepatomegaly is rare. Other symptoms of poisoning are acidosis, intravascular coagulation, anemia, visual disturbances, and fever.

Ingestion - Chronic Exposure
BORIC ACID: Repeated ingestion may cause gastrointestinal irritation and disturbances, loss of appetite, disturbed digestion, nausea, possibly vomiting, erythematous rash which may become hard and purpuric, dryness of skin and mucous membranes, reddening of the tongue, cracking of the lips, loss of hair, conjunctivitis, palpebral edema and kidney injury. Animal studies indicate prolonged ingestion may cause a variety of reproductive effects. In female rats the ovaries and fallopian tubes were affected, and in males the testes, epididymis, and sperm duct were affected.
**Section 15 - REGULATORY INFORMATION**

**U.S. Federal Regulations**
None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA Section 311/312 (40 CFR 370 Subparts B and C)**
Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactive: No

**U.S. State Regulations**
None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Not listed under California Proposition 65

**Canadian WHMIS Ingredient Disclosure List (IDL)**
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

**BORIC ACID (10043-35-3)**
1 %

**Germany Water Classification**
BORIC ACID (11113-50-1)
ID Number 315, hazard class 1 - low hazard to waters

**REACH Candidate List of Substances Subject to Authorisation (Article 59(1)) - Reg. (EU) No. 1907/2006**
This list includes substances listed on the candidate list of substances subject to Authorisation. Once listed on the candidate list, substances present in articles in concentrations meeting or exceeding 0.1 % w/w must be disclosed according to Article 33 of REACH.

**BORIC ACID (11113-50-1)**
Reason for inclusion: Toxic to reproduction, Article 57c

**BORIC ACID (10043-35-3)**
Reason for inclusion: Toxic to reproduction, Article 57c

**Symbol(s)**
T Toxic

**Risk Phrases**
R60 May impair fertility.
R61 May cause harm to unborn child.

**Component Analysis - Inventory**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>US</th>
<th>CA</th>
<th>EU</th>
<th>AU</th>
<th>PH</th>
<th>JP</th>
<th>KR</th>
<th>CN</th>
<th>NZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>BORIC ACID</td>
<td>11113-50-1</td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Globally Harmonized System of Classification and Labelling (GHS)
The listed component(s) of this material have been checked for country-specific published classifications according to the Globally Harmonized System of Classification and Labelling (GHS). The results of the queries are displayed below. Please see the individual country listings, as additional interpretations or reference information may be available.

Australia GHS Classifications
No published information available. This material may be hazardous according to published criteria for classification.

European Union GHS Classifications
Classifications below according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).

BORIC ACID (11113-50-1)
Reproductive Toxicity - Category 1B **H360FD** May damage fertility. May damage the unborn child.

BORIC ACID (10043-35-3)
Reproductive Toxicity - Category 1B **H360FD** May damage fertility. May damage the unborn child.

European Union GHS Labelling Information
Labelling information below is according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).

BORIC ACID (11113-50-1)
Symbol(s):

Signal Word: Danger
Hazard(s):
H360FD: May damage fertility. Suspected of damaging the unborn child.

Prevention:
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.

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

Storage:
P405: Store locked up.

Disposal:
P501: Dispose of contents/container to . . .

BORIC ACID (10043-35-3)
Symbol(s):
Signal Word: Danger

Hazard(s):

H360FD: May damage fertility. Suspected of damaging the unborn child.

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P201: Obtain specific instructions before use.
P202: Do not handle until all safety precautions have been read and understood.

Response:

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

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents/container to . . .

Indonesia GHS Classifications

No published information available. This material may be hazardous according to published criteria for classification.

Japan GHS Classifications

Classifications below published under Japan's Chemicals Classification Program according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

BORIC ACID (10043-35-3)

Acute toxicity - Oral - Category 5 **H303** May be harmful if swallowed.

Skin corrosion/irritation - Category 2 **H315** Causes skin irritation.

Serious eye damage/eye Irritation - Category 2A **H319** Causes serious eye irritation.

Toxic to reproduction - Category 1B **H360** May damage fertility or the unborn child.

Specific target organ toxicity - Single exposure - Category 1 **H370** Causes damage to digestive system and/or nervous system.

Specific target organ toxicity - Single exposure - Category 3 **H335** May cause respiratory irritation.

Specific target organ toxicity - Repeated exposure - Category 1 **H372** Causes damage to kidneys through prolonged or repeated exposure.

Japan GHS Labelling Information

Labelling information below according to classifications published by Japan's Chemicals Classification Program according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

BORIC ACID (10043-35-3)

Symbol(s):
Signal Word: Warning

Hazard(s):
H303: May be harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H360: May damage fertility or the unborn child.
H370: Causes damage to organs.
H335: May cause respiratory irritation.
H372: Causes damage to organs through prolonged or repeated exposure.

Prevention:
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash ... thoroughly after handling.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P270: Do not eat, drink or smoke when using this product.

Response:
P308+P313: IF exposed or concerned: Get medical advice/attention.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P362+P364: Take off contaminated clothing and wash it before reuse.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P321: Specific treatment (see ... on this label).

Storage:
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.

Disposal:
P501: Dispose of contents/container to . . .

Korea GHS Classifications (SV)
Classifications below published by Korea's Ministry of Environment (MOE), Ministry of Employment and Labor (MOEL) or Office of National Emergency Management (NEMA, physical hazards only).
BORIC ACID (10043-35-3)

MOEL:

Skin corrosion/irritation - Category 2 H315 Causes skin irritation.
Serious eye damage/eye Irritation - Category 2A H319 Causes serious eye irritation.
Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child.
Specific target organ toxicity - Single exposure - Category 1 H370 Causes damage to digestive system and/or nervous system.
Specific target organ toxicity - Single exposure - Category 3 H335 May cause respiratory irritation.
Specific target organ toxicity - Repeated exposure - Category 1 H372 Causes damage to kidneys through prolonged or repeated exposure.

Korea GHS Labelling Information

Korea GHS Labelling Information
Labelling information below according to classifications published by Korea's Ministry of Environment (MOE), Ministry of Employment and Labor (MOEL) or Office of National Emergency Management (NEMA, physical hazards only).

BORIC ACID (10043-35-3)
Symbol(s):

Signal Word: Warning
Hazard(s):
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H360: May damage fertility or the unborn child.
H370: Causes damage to organs.
H335: May cause respiratory irritation.
H372: Causes damage to organs through prolonged or repeated exposure.
Prevention:
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264:
Wash ... thoroughly after handling.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P270: Do not eat, drink or smoke when using this product.
Response:
P308+P313: IF exposed or concerned: Get medical advice/attention.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P362+P364: Take off contaminated clothing and wash it before reuse.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P321: Specific treatment (see ... on this label).

Storage:
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.

Disposal:
P501: Dispose of contents/container to . . .

New Zealand GHS Classifications
Classifications below according to the Environmental Risk Management Authority's (ERMA) Hazardous Substances and New Organisms (HSNO) Act, as amended.

BORIC ACID (10043-35-3) Approval: HSR002995
Acute toxicity - Oral - Category 5 H303 May be harmful if swallowed.
Skin corrosion/irritation - Category 3 H316 Causes mild skin irritation.
Serious eye damage/eye Irritation - Category 2A H319 Causes serious eye irritation.
Reproductive Toxicity - Category 2 H361 Suspected of damaging fertility or the unborn child.
Hazardous to aquatic environment - chronic hazard - Category 4 H413 May cause long lasting harmful effects to aquatic life.

New Zealand GHS Labelling Information
Labelling information below according to classifications published by New Zealand's Environmental Risk Management Authority's (ERMA) Hazardous Substances and New Organisms (HSNO) Act, as amended.

BORIC ACID (10043-35-3)
Symbol(s):

Signal Word: Warning
Hazard(s):
H303: May be harmful if swallowed.
H316: Causes mild skin irritation.
H319: Causes serious eye irritation.
H361: Suspected of damaging fertility or the unborn child.
H413: May cause long lasting harmful effects to aquatic life.

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash ... thoroughly after handling.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P273: Avoid release to the environment.

Response:

P308+P313: IF exposed or concerned: Get medical advice/attention.
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 advice/attention.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents/container to . . .

Remark(s): other

South Africa GHS Classifications
No published information available. This material may be hazardous according to published criteria for classification.

Taiwan GHS Classifications
No published information available. This material may be hazardous according to published criteria for classification.

** * Section 16 - OTHER INFORMATION* **

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Farenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of ListsTM - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology
Full text of R phrases in Section 3
R60 May impair fertility.
R61 May cause harm to the unborn child.

Other Information
Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse. **Disclaimer:** Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. THIS MSDS IS TO BE UTILIZED SOLELY AS A REFERENCE DOCUMENT AND IT IS NOT TO BE USED TO SATISFY THE DISTRIBUTION REQUIREMENTS OF OSHA’S HAZARD COMMUNICATION STANDARD (HCS) NOR CANADA’S CONTROLLED PRODUCT REGULATION (CPR). Read the Material Safety Data Sheet before handling product. Use of any information contained herein is provided at the reader's own risk and thus independent judgment by trained professionals must be utilized at all times.

**Copyright**
Copyright 1984-2011 ChemADVISOR, Inc.

“RTECS®” is a United States trademark owned and licensed under authority of the U.S. Government, by and through Accelrys, Inc. Portions ©Copyright 2011, U.S. Government. All rights reserved.