Back To Your Roots Soil Solutions

Organic Paperwork for Verification 2018

Micronized Soft Rock Phosphate

3/8 Grind Soft Rock Phosphate
Madam/Sir,

ECOCERT CANADA has reviewed the declared formula for the product listed below against the National Standard of Canada on Organic Production Systems and Permitted Substances Lists (CAN/CGSB 32.310-2015 and CAN/CGSB 32.311-2015).

ECOCERT CANADA have verified that all the declared ingredients appear on the Permitted Substances Lists (CAN/CGSB-32.311-2015) applicable sections and are compliant with any restrictions regarding their production and composition.

ECOCERT CANADA have also verified that the declared processes used in the manufacture of this product (and its ingredients) are compliant with section 1.4. of CAN/CGSB-32.310-2015.

When restrictions apply regarding the use of such substances, they are indicated in the table in annex.

We remind you that no reference to ECOCERT CANADA is allowed on the labels and promotional material of these products.

This document is valid 12 months. A new evaluation is required every year.

Yours truly,

Simon Jacques,
Input Verification Officer

Attachment: Annex of product(s)
Annex

High Brix Manufacturing (170764)
Box 5211,
Leduc, Alberta, T9E 6L6

ISSUED: 2018-01-09
EXPIRES: 2018-11-21

The following product formulae were reviewed by ECOCERT CANADA:

<table>
<thead>
<tr>
<th>Product Names</th>
<th>Applicable section of CAN-CGSB 32.311-2015</th>
<th>Result</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 Grind Soft Rock Phosphate</td>
<td>4.2 – Soil amendments and crop nutrition</td>
<td>Allowed</td>
<td>No restriction</td>
</tr>
<tr>
<td>Genesis Soil Rite Calcium Dormant</td>
<td>4.2 – Soil amendments and crop nutrition</td>
<td>Allowed</td>
<td>No restriction</td>
</tr>
<tr>
<td>Genesis Soil Rite Calcium Growing</td>
<td>4.2 – Soil amendments and crop nutrition</td>
<td>Allowed</td>
<td>No restriction</td>
</tr>
<tr>
<td>Micronized Soft rock Phosphate</td>
<td>4.2 – Soil amendments and crop nutrition</td>
<td>Allowed</td>
<td>No restriction</td>
</tr>
<tr>
<td>Pelletized Soft Rock Phosphate</td>
<td>4.2 – Soil amendments and crop nutrition</td>
<td>Allowed</td>
<td>No restriction</td>
</tr>
<tr>
<td>SF Organics</td>
<td>4.2 – Soil amendments and crop nutrition</td>
<td>Allowed</td>
<td>No restriction</td>
</tr>
<tr>
<td>ZumSil</td>
<td>4.2 – Soil amendments and crop nutrition</td>
<td>Allowed</td>
<td>No restriction</td>
</tr>
</tbody>
</table>

This annex is not valid without the evaluation letter to High Brix Manufacturing.
January 20, 2018

To Whom It May Concern:

Re: Micronized Soft Rock Phosphate

The Micronized Soft Rock Phosphate is a mined rock from a Canadian quarry. The micronization process is a mechanical process only. There has been nothing added to this mined product. From the micronization process it is packaged and distributed by High Brix Manufacturing Inc.

Sincerely,

Greg Moline
President
High Brix Manufacturing Inc
780-902-1234
RE: Micronizing process regarding Organic Certification

The Micronized Soft Rock is processed through our closed loop system, the process is as follows:

- Mined rock is trucked into the facility using end dump trailers.
- The rock is stored on a cement pad and tarped to prevent contamination.
- The rock is fed into the system using a loader and dumped into the feed hopper.
- The rock is then fed from the feed hopper into a rotary dryer; the rock is dried so that the moisture content of the rock is less than 3%. No additives or chemicals are used in the drying process.
- Dried rock is then fed into the primary crushing system. The rock is conveyed through the system using belts and bucket elevators. The rock is crushed in a roller crusher and screened to less than 3/16" for feed into the disintegration system.
- Once screened, the rock is fed into the disintegration system it passes through an air classification system into the Disintegrator.
- Rock fed into the disintegrator falls onto a throwing wheel which accelerates the rock to 400 ft/sec. The rock exits the wheel and impacts on a grinding wheel rotating in the opposite direction at 400 ft/sec. The combined impact speed disintegrates the rock.
- The rock then returns to the classification system where oversized material is returned to the disintegration process and the properly sized material is conveyed into bags for shipment.

At no time are any chemicals or additives used in the system. The MSR is contained in a closed loop system and is not contaminated during the processing with any chemicals or foreign material.
MATERIAL SAFETY DATA SHEET

3/8 Grind Soft Rock Phosphate

EMERGENCY CALL 911 or CANUTEC: 1-(613) 996-6666 or * 666 on cell phones

Section 1: Product Information

Manufacturers name and Address:
High Brix Manufacturing
Box 5211
Leduc, Alberta, T9E6L6

Trade Name: Micronized Soft Rock Phosphate
Synonyms: Phosphate Rock (minerals rock); apatite rock deposit; soft rock phosphate; organic rock phosphate.

In case of emergency call 911 or Canutec: 1 (613) 996-6666 or *666 on your cell phone

2. Hazardous Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>% Exposure Limits</th>
<th>Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Physical Data

- Boiling Point: N/A
- Freezing Point: Decomposes
- Vapour Pressure: N/A
- Vapour Density: N/A
- Evaporation Rate: N/A
- Appearance and Odour: Brown powdered rock

4. Fire and Explosion Hazard Data

Flammable Limits in air(upper): No Data
Flammable Limits in air(lower): No Data
Flash Point (Degrees F):
Means of extinction: Use water, CO2, dry chemical foam

Unusual Fire and Explosion Hazards: Avoid production in a dusty area where there is electrical or local burning.

5. Reactivity Data

Stability: Very Stable when dry
Conditions of reactivity: Temperatures in excess of 150 degrees C.
Materials to avoid: Bases and Hypochlorite's
Hazardous Decomposition Products: Ammonia, Carbon Monoxide, Cyanuric Acid and sulphur dioxide.

6. Toxicology Properties

Avoid contact with eyes, mouth or excess dust in ear cavities. May also cause irritation to skin upon contact. Also can cause lung damage, if dust is consumed on a regular basis due to the silica content.
Carcinogenicity: None of the materials are carcinogens.

7. Preventive Measures

Control measures: Ventilate to control dust.
Respiratory Protection: A NIOSH or MSHA approved respirator should be worn when dust levels exceed 15 mg/m³
Protective Clothing: Normal clothing or coveralls, rubber gloves.
Eye Protection: Wear Safety glasses or goggles to avoid eye contact.
Spill or Leak Precautions: Sweep, shovel or vacuum into sealable waste containers. Flush area with plenty of water. Prevent contamination of sewers, streams, lakes, ponds and domestic waterways.
Waste Disposal: Dispose of in accordance with local, provincial and federal regulations. Return recovered material to manufacturer for recycling or reprocessing.
Storage and Handling Precautions: Keep out of reach of children. Store in a dry place. Do not store with seeds or foodstuffs. Avoid direct and prolonged contact with skin.

8. First Aid Measures

Primary Route of Exposure: Skin or eye contact, inhalation.
If inhaled: Move victim to fresh air.
In case of eye contact: Flush immediately with large amounts of water for 15 minutes. Seek attention if irradiation persists.
In case of skin contact: Wash with soap and water. Flush affected areas with large amount of cold water. Contaminated clothing should be washed.
If Swallowed: Signs and symptoms: Excess ingestions must occur before any health hazard results. Effects of overexposure may include nausea, vomiting, diarrhea, weakness or convulsions. Treatment: For large amounts, seek medical attention.

9. Preparation Date

Cindy Nikolaisen, High Brix Manufacturing 1-306-747-4744  2013-12-26
MATERIAL SAFETY DATA SHEET

Micronized Soft Rock Phosphate

EMERGENCY CALL 911 or CANUTEC: 1-(613) 996-6666 or * 666 on cell phones

Section 1: Product Information

Manufacturers name and Address:
High Brix Manufacturing
Box 5211
Leduc, Alberta, T9E6L6

Trade Name: Micronized Soft Rock Phosphate
Synonyms: Phosphate Rock (minerals rock); apatite rock deposit; soft rock phosphate; organic rock phosphate.

In case of emergency call 911 or Canutec: 1 (613) 996-6666 or *666 on your cell phone

2. Hazardous Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>% Exposure Limits</th>
<th>Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Physical Data

- Boiling Point: N/A
- Freezing Point: Decomposes
- Vapour Pressure: N/A
- Appearance and Odour: Brown powdered rock

4. Fire and Explosion Hazard Data

Flammable Limits in air(upper): No Data
Flammable Limits in air(lower): No Data
Flash Point (Degrees F): Means of extinction: Use water, CO2, dry chemical foam
Unusual Fire and Explosion Hazards: Avoid production in a dusty area where there is electrical or local burning.

5. Reactivity Data

Stability: Very Stable when dry
Conditions of reactivity: Temperatures in excess of 150 degrees C.
Materials to avoid: Bases and Hypochlorite’s
Hazardous Decomposition Products: Ammonia, Carbon Monoxide, Cyanuric Acid and sulphur dioxide.

6. Toxicology Properties

Avoid contact with eyes, mouth or excess dust in ear cavities. May also cause irritation to skin upon contact. Also can cause lung damage, if dust is consumed on a regular basis due to the silica content.
Carcinogenicity: None of the materials are carcinogens.

7. Preventive Measures

Control measures: Ventilate to control dust.
Respiratory Protection: A NIOSH or MSHA approved respirator should be worn when dust levels exceed 15 mg/m3
Protective Clothing: Normal clothing or coveralls, rubber gloves.
Eye Protection: Wear Safety glasses or goggles to avoid eye contact.
Spill or Leak Precautions: Sweep, shovel or vacuum into sealable waste containers. Flush area with plenty of water. Prevent contamination of sewers, streams, lakes, ponds and domestic waterways.
Waste Disposal: Dispose of in accordance with local, provincial and federal regulations. Return recovered material to manufacturer for recycling or reprocessing.
Storage and Handling Precautions: Keep out of reach of children. Store in a dry place. Do not store with seeds or foodstuffs. Avoid direct and prolonged contact with skin.

8. First Aid Measures

Primary Route of Exposure: Skin or eye contact, inhalation.
If inhaled: Move victim to fresh air.
In case of eye contact: Flush immediately with large amounts of water for 15 minutes. Seek attention if irradiation persists.
In case of skin contact: Wash with soap and water. Flush affected areas with large amount of cold water. Contaminated clothing should be washed.
If Swallowed: Signs and symptoms: Excess ingestions must occur before any health hazard results. Effects of overexposure may include nausea, vomiting, diarrhea, weakness or convulsions. Treatment: For large amounts, seek medical attention.

9. Preparation Date

Cindy Nikolaisen, High Brix Manufacturing 1-306-747-4744 2013-08-30
CERTIFICATE OF ANALYSIS

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>RESULT</th>
<th>UNIT</th>
<th>DETECTION LIMIT</th>
<th>METHOD REFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>E. coli O157:H7</td>
<td>NEGATIVE</td>
<td>P/A</td>
<td></td>
<td>MFLP-30</td>
</tr>
<tr>
<td>Salmonella spp.</td>
<td>NEGATIVE</td>
<td>P-A/25.0g(ml)</td>
<td></td>
<td>MFLP-75 *</td>
</tr>
<tr>
<td>Total Phosphorus (As P205)</td>
<td>14.76</td>
<td>%</td>
<td>0.05</td>
<td>ICP</td>
</tr>
<tr>
<td>Arsenic</td>
<td>20.69</td>
<td>ug/g</td>
<td>1.00</td>
<td>EPA 3050/6010 (mod) *</td>
</tr>
<tr>
<td>Cadmium</td>
<td>1.48</td>
<td>ug/g</td>
<td>1.00</td>
<td>EPA 3050/6010 (mod) *</td>
</tr>
<tr>
<td>Calcium</td>
<td>242660.00</td>
<td>ug/g</td>
<td>5.00</td>
<td>EPA 3050/6010 (mod)*</td>
</tr>
<tr>
<td>Chromium</td>
<td>93.55</td>
<td>ug/g</td>
<td>1.00</td>
<td>EPA 3050/6010 (mod)</td>
</tr>
<tr>
<td>Mercury</td>
<td>BDL*</td>
<td>ug/g</td>
<td>0.10</td>
<td>EPA 7471 *</td>
</tr>
<tr>
<td>Nickel</td>
<td>63.70</td>
<td>ug/g</td>
<td>1.00</td>
<td>EPA 3050/6010 (mod)</td>
</tr>
<tr>
<td>Lead</td>
<td>12.10</td>
<td>ug/g</td>
<td>1.00</td>
<td>EPA 3050/6010 (mod) *</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>64460.00</td>
<td>ug/g</td>
<td>5.00</td>
<td>EPA 3050/6010 (mod)*</td>
</tr>
<tr>
<td>Vanadium</td>
<td>66.25</td>
<td>ug/g</td>
<td>1.00</td>
<td>ICP</td>
</tr>
</tbody>
</table>

Comment:

Results reported on a dry weight basis
* - accredited test
BDL - Below detectable levels
The results of this report relate to the sample submitted and analyzed.

Results Authorized By: Haifeng Song, Senior Chemist / Agriculture Supervisor

A & L Canada Laboratories Inc. is accredited by the Standards Council of Canada for specific tests as listed on www.scc.ca and by the Canadian Association for Laboratory Accreditation as listed on www.cala.ca