Carbo Blast

SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE

Product name: Carbo Blast
Fertilizer formula: 0-1-0
Product type: Powder
Product usage: Hydroponics
Restrictions on use: n/a
Initial Supplier: Future Harvest Plantlife Products
Emergency Telephone Number: 250-491-0255

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture
Classification in accordance to Regulation(EC) No. 1272/2008 (CLP): Not classified
Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC(DPD): Not classified
Classification according to 29 CFR 1910.1200 (OSHA HCS): Not classified

2.2 Label elements
H315 - Causes skin irritation
H320 - Causes eye irritation
H335 - May cause respiratory irritation
Precautionary statements (GHS-US)
P261 - Avoid breathing dust
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of water
P304+P340 - IF INHALED: Remove person to fresh air and keep 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
P312 - Call a POISON CENTER/doctor if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container according to local, regional, national, and international regulations

SECTION 3: COMPOSITION / IDENTIFICATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Concentration</th>
<th>Other Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monoammonium Phosphate</td>
<td>7722-76-1</td>
<td>&lt;5%</td>
<td>MAP Ammonium Phosphate Monobasic</td>
</tr>
</tbody>
</table>

**Note:** There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in section 8.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention if irritation occurs.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting. If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Dusts may cause coughing and sneezing. Ingestion of large quantities may cause gastrointestinal irritation, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Not available
SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable: Use an extinguishing agent suitable for the surrounding fire.
Not suitable: Not available

5.2 Special hazards arising from the substance or mixture
Non-combustible.
Hazardous thermal decomposition products: Under fire - oxides of phosphorous, Ammonia

5.3 Advice for firefighters
Move containers from fire area if possible to do so without risk. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill.

6.2 Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up
Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

6.4 Reference to other sections
See Section 1 for emergency contact information.
See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with skin and eyes. Wash thoroughly after handling.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.
7.2 Conditions for safe storage, including any incompatibilities
Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with combustible materials. Prevent moisture pick-up in handling and storage. Packaging materials recommended: Use original container.

7.3 Specific use(s):
Not available

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters
Not applicable

8.2 Appropriate engineering controls
General ventilation is usually adequate. Use local exhaust ventilation and enclosure, if necessary to control amount in the air.

8.3 Individual protection measures, such as personal protective equipment
General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection
Hand protection: Chemical resistant gloves
Other: Wear suitable protective clothing.

Respiratory protection: In case of inadequate ventilation, use respiratory protection.

Hygiene measures: Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Appearance: White Powder
Odour: Odorless
Odour threshold:
pH: 3.5 – 4.5
Initial boiling point/boiling range: > 100°C
Flash point: Not applicable
Evaporation rate: Not volatile (butyl acetate=1)
Flammability: Not flammable
Upper/lower flammability or explosive limits:
Vapor pressure: 4.5X10^15 Pa at 25°C- Not Volatile
Vapor density: Not volatile Relative Density: 1.0 at 25.1±0.5°C (water=1)
Solubility(ies):
Water solubility- 200-400 grams per liter @ 20 °C
Partition coefficient Octanol/Water: The product is more soluble in water;
log(octanol/water) <1
Auto-ignition temperature: Not applicable
Decomposition temperature: Not available
Viscosity: Not viscous
Explosive properties: Not explosive
Oxidizing properties: Not oxidizer

9.2 Other information
Melting point/Freezing point: Not applicable
VOC: Not an organic compound
Specific Gravity: Not applicable
Miscibility: Not applicable
Fat solubility: Not applicable
Gas group: Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability
The product is stable under normal handling and storage conditions described in Section 7. Reacts with acids and alkalis.

10.3 Possibility of hazardous reactions
Hazardous reactions are not expected, under normal conditions of storage and use.
10.4 **Conditions to avoid**
Heat, open flames, sparks, static discharge, heat and other ignition sources.

10.5 **Incompatible materials**
Strong oxidizing agents and strong bases.

10.6 **Hazardous decomposition products**
Other decomposition products: Not available In event of fire: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 **Information on likely routes of exposure**
- Ingestion: Irritating. May cause nausea, stomach pain and vomiting.
- Inhalation: May cause irritation to the respiratory system.
- Skin contact: Causes mild skin irritation.
- Eye contact: Causes eye irritation.

11.2 **Information on toxicological effects**
- Acute toxicity (list all possible routes of exposure)
  - Oral Product: LD 50: Approximate 5750 mg/kg Monoammonium Phosphate (rat)
  - Dermal Product: > 7940 mg/kg (rabbit)
- Inhalation Product: May cause respiratory irritation
- Repeated dose toxicity Product: No data available.
- Skin corrosion/irritation Product: Causes mild skin irritation.
- Serious eye damage/eye irritation Product: Causes eye irritation.
- Respiratory or skin sensitization Product: Causes mild skin irritation
- Carcinogenicity Product: This substance has no evidence of carcinogenic properties.
  - IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified
  - US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified
- Germ cell mutagenicity
  - In vitro Product: No mutagenic components identified
- In vivo Product: No mutagenic components identified
- Reproductive toxicity Product: No components toxic to reproduction
- Specific target organ toxicity - single exposure Product: None known
- Specific target organ toxicity - repeated exposure Product: None known
- Aspiration hazard Product: Not classified
Other effects: None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**  
Monoammonium phosphate  
Toxicity to fish: (Oncorhynchus mykiss) 96-hr: LC50 = > 85.9 mg/L  
Toxicity to crustaceans: Not available  
Toxicity to algae: Not available

**12.2 Persistence and Degradability**  
Not applicable, since inorganic substance.

**12.3 Bioaccumulative potential**  
The potential for bioaccumulation consider to be minimal.

**12.4 Mobility in soil**  
Soil/water partition coefficient (Koc): N/A  
Mobility: Soluble in water.

**12.5 Results of PBT and vPvB assessment**  
Not applicable

**12.6 Other adverse effects**  
Substances which have an unfavorable influence on the oxygen balance and can be measured using parameters such as BOD, COD, etc.: Absent

Substances, which contribute to eutrophication: Phosphates, 1% as P₂O₅

**SECTION 13: DISPOSAL CONSIDERTATIONS**

**13.1 Waste treatment methods**  
Product: Waste must be disposed of in accordance with federal, state, provincial and local environmental control regulations.

Packing: Empty containers should be taken for local recycling, recovery or waste disposal.
SECTION 14: TRANSPORT INFORMATION

Canadian TDG Not Regulated
US DOT Not Regulated

SECTION 15: REGULATORY INFORMATION

TSCA inventory: Listed
Australia AICS: On or in compliance with the inventory
Canada DSL Inventory List: On or in compliance with the inventory
EINECS, ELINCS or NLP: On or in compliance with the inventory
Japan (ENCS) List: On or in compliance with the inventory
China Inv. Existing Chemical Substances: Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory
Canada NDSL Inventory: Not in compliance with the inventory.
Philippines PICCS: On or in compliance with the inventory
US TSCA Inventory: On or in compliance with the inventory
New Zealand Inventory of Chemicals: On or in compliance with the inventory
Japan ISHL Listing: On or in compliance with the inventory

SECTION 16: OTHER INFORMATION

Date of issue: July 16 2018
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