SAFETY DATA SHEET

Holland Secret Bloom

SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE

Product name: Holland Secret Bloom
Fertilizer formula: 0-6-4
Product type: Liquid
Product usage: Hydroponics
Restrictions on use: n/a
Initial Supplier: 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
P280 Wear protective gloves/eye protection/face protection.
Response:
P370 + P378 In case of fire: Use water spray or fog to extinguish.
Disposal:
P501 Dispose of contents and container in accordance with 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>Monopotassium Phosphate</td>
<td>7778-77-0</td>
<td>10-20%</td>
<td>MKP, Potassium Phosphate Monobasic</td>
</tr>
<tr>
<td>Magnesium Sulfate</td>
<td>7487-88-9</td>
<td>10-20%</td>
<td>Epsom Salt</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, oxides of potassium.

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: Orange Liquid
Odour: Odorless
Odour threshold: Odorless
pH: 4.5 – 5.5
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- Miscible
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: < 0°C
VOC: Not an organic compound
Specific Gravity: 1.17 ±0.05
Miscibility: Miscible
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 1,700 mg/kg Monopotassium Phosphate (Mouse), Magnesium Sulfate: Not available

**Dermal**
Product: No data available.

**Inhalation**
Product: No data available.

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: Not a skin sensitizer.

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**
Monopotassium phosphate
Toxicity to fish: LC50/96h (Rainbow trout) > 100 mg/L
Toxicity to crustaceans: EC50/48h (Daphnia magna) > 100 mg/L
Toxicity to algae: EC50/75h (algae) > 100 mg/L EC50 (48 h): 300 mg/L
Magnesium Sulfate: 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, 6% 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: Not 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

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