

**SAFETY DATA SHEET**

Surge Plus 1-1-0

**SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE**

Product name: Surge Plus  
Fertilizer formula: 1-1-0  
Product type: Powder  
Product usage: Plant Fertilizer  
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**

Labeling in accordance with Regulation 1272/2008 (CLP)

Hazard pictograms: Not required

Signal word: Warning

Precautionary Statement(s): May form combustible dust concentrations in the air

Labelling in accordance with 67/548/EEC as amended

Hazard symbol(s): Not required

Risk phrase(s): Warning

Safety phrase(s): May form combustible dust concentrations in the air

Labeling in accordance with Regulation 29 CFR 1910.1200 (OSHA HCS)

Hazard pictograms: Not required

Signal word: Warning

Hazard statement(s): May form combustible dust concentrations in the air

Precautionary Statements: Not required

**2.3 Other hazard**

Substance meets the criteria for BBT according to Regulation (EC) No. 1907/2006, Annex XIII: Not applicable

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: Not applicable

Other hazard which do not result in classification: Not applicable

**SECTION 3: COMPOSITION / IDENTIFICATION ON INGREDIENTS**

Chemical Name	CAS No.	Concentration	Other Names
Monoammonium Phosphate	7722-76-1	< 5%	MAP Potassium Phosphate Monobasic Ammonium Dihydrogenphosphate
Thiamine Hydrochloride	67-03-8	< 1%	Vitamin B1
<i>Ascophyllum nodosum</i> extract	84775-78-0	5 %	Kelp extract
Dextrose	50-99-7	20-60%	Glucose
Potassium Humate	68514-28-3	20%	Humic Acid Potassium Salt

**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: Carbon Dioxide, Water spray, Foam

#### **5.2 Special hazards arising from the substance or mixture**

May form combustible dust concentrations in the air. The material can be ignited by sparks, heat, flames or other ignition sources (such as pilot lights, static electricity, mechanical or electrical equipment and other electronic devices). Use explosion proof electrical equipment. Avoid oxidizing materials.

#### **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**

Occupational exposure limits: None of the components have assigned exposure limits.

**8.2 Appropriate engineering controls** Ventilation equipment should be explosion proof

#### **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: Grey Powder

Odour: Ocean, Soil like

Odour threshold: n/a

pH: 6.5 at 10 grams per liter

Initial boiling point/boiling range: Not Applicable

Flash point: Not applicable

Evaporation rate: Not volatile (butyl acetate=1)

Flammability: Flammable

Upper/lower flammability or explosive limits:

Vapor pressure: Not Applicable

Vapor density: Not Applicable

Solubility(ies):

Water solubility: Unknown

Partition coefficient Octanol/Water: The product is more soluble in water;

Auto-ignition temperature: Not applicable

Decomposition temperature: Unknown

Viscosity: Not viscous

Explosive properties: Unknown

Oxidizing properties: Not oxidizer

### **9.2 Other information**

Melting point/Freezing point: Not applicable

Molecular weight: Not applicable

VOC: Not applicable

Specific Gravity: 0.91

Miscibility: Unknown

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.  
Stable under normal conditions.

### **10.2 Chemical stability**

The product is stable under normal handling and storage conditions described in Section 7. Reacts with oxidizers.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions are not expected, under normal conditions of storage and use.

### **10.4 Conditions to avoid**

Extreme humidity. Excess heat.

### **10.5 Incompatible materials**

Strong oxidizing agents and strong bases.

### **10.6 Hazardous decomposition products**

Carbon Dioxide, Carbon Monoxide, Ammonia, Phosphorus Oxides

## **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 (Rat): Approximate >2000 mg/kg (Monoammonium Phosphate)

Dermal Product: LD50 (Rat) >5000 mg/kg (Monoammonium Phosphate)

Inhalation Product: LD50 (Rat) >5 mg/kg (Monoammonium Phosphate)

Repeated dose toxicity Product: No data available.

Skin corrosion/irritation Product: No data available.

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  
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): 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**

Avoid release into the environment.

### **12.1 Toxicity** (Monoammonium phosphate)

Toxicity to fish: LC50/96h (Rainbow trout) > 85.9 mg/L

Toxicity to crustaceans: EC50/72h (Daphnia magna) 1790 mg/L

Toxicity to algae: ErC50 (Pseudokirchneriella subcapitata) > 100 mg/L

### **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 P<sub>2</sub>O<sub>5</sub>

## **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**

Transport Canada: Not regulated

DOT: Not regulated.

IMDG: Not regulated.

IATA: 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

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

## **SECTION 16: OTHER INFORMATION**

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