



SAFETY DATA SHEET

Surge Pro

Revision Date: March 13, 2023

SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE

Product Name: Surge Pro

Fertilizer Formula: 1 - 0 - 0

Product Type: Powder

Recommended Use: Hydroponics

Restrictions on use: N / A

Manufacturer: Future Harvest Development LTD.

Emergency Telephone Number: 250-491-0255

24 Hour Emergency Telephone Number: CANUTEC 1-613-996-6666

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with 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 require.

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
Soya Based Amino Acids	68607-88-5	5 - 10 %	
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
Fulvic Acid	479-66-3	5 %	

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

Eye 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. Do not breathe vapour. 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):

N / A

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 / 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: Light brown powder.

Odour: Ocean, soil-like.

Odour Threshold: N / A

pH: 5.5 at 10 grams per liter.

Initial Boiling Point / Boiling Range: N / A

Flash Point: N / A

Evaporation Rate: Not volatile (butyl acetate=1).

Flammability: Flammable.

Upper / Lower Flammability or Explosive Limits:

Vapor Pressure: N / A

Vapor Density: N / A

Solubility(ies):

Water Solubility: Unknown.

Partition Coefficient Octanol / Water: The product is more soluble in water.

Auto-ignition Temperature: N / A

Decomposition Temperature: Unknown.

Viscosity: N / A

Explosive Properties: Unknown.

Oxidizing Properties: Not oxidizer.

9.2 Other information

Melting Point / Freezing Point: N / A

Molecular Weight: N / A

VOC: N / A

Specific Gravity: 0.91.

Miscibility: Unknown.

Fat Solubility: N / A

Gas Group: N / A

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 3710 mg/kg (Thiamine HCl)

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: May trigger soy allergies.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to Fish: N / A

Toxicity to Crustaceans: N / A

Toxicity to Algae: N / A

12.2 Persistence and Degradability

Not applicable, since inorganic substance.

12.3 Bioaccumulative potential

The potential for bioaccumulation considered 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

N / A

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

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.

IMDG: Not Regulated.

IATA: 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.

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

SECTION 16: OTHER INFORMATION

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