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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Trade name: Green House Powder Feeding BioEnhancer, Green House Feeding Enhancer
Identification: EC No.: See Section 3 of SDS
REACH Registration No.: --
CAS-No.: See Section 3 of SDS

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Fertilizer

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Green House Feeding (PF Trading B.V.); Keienbergweg 49, 1101EX Amsterdam, The Netherlands
Tel.: +31 (0) 20 716 38 34 E-mail: shop@greenhousefeeding.com

1.4 Emergency telephone number:

Manufacturer: See point 1.3 (Only during office hours Mon-Fri 09:00 – 17:00)
NVIC: +31(0)30 274 8888 (Only for the purpose of informing medical personnel in case of acute intoxications)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification:

Classification Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 (CLP)

2.2 Label Elements:

Labelling Regulation (EC) No 1272/2008

This product is not classified as dangerous

2.3 Other hazards:

May be harmful if swallowed
After prolonged contact, slight skin irritation possible.
May cause long-term adverse effects in the aquatic environment

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

This product is a physical blend of potassium humate, seaweed extract, Bacillus Amyloliquefaciens and Trichoderma hazianum

3.2 Mixtures:

Components	CAS-Nr.	EINECS/EC
Potassium Humate	68514-28-3	271-030-1
Dried seaweed extract (Ascophyllum ndosum)	84775-78-0	283-907-6

SECTION 4: FIRST AID MEASURES

4.1 General information:

If swallowed:

Call a poison center or doctor/physician if you feel unwell.
In all cases of doubt or if symptoms persist get medical treatment.

After inhalation:

Supply fresh air, consult a doctor in case of symptoms.
If you feel unwell seek medical advice (show the label where possible or the MSDS)

After skin contact:

Wash with water and soap, rinse thoroughly.
If irritation persists, consult a doctor.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor.

After oral intake:

Rinse mouth and then drink plenty of water. May cause nausea, vomiting, diarrhea.
Call a poison center or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

After inhalation of decomposition products: not applicable

4.3 Indication of any immediate medical attention and special treatment needed:

Symptomatic Treatment

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Extinguishing media: Water, foam, extinguishing powder, CO2

5.2 Special hazards arising from the substance or mixture:

Combustion products/gases: Can be released in case of fire: CO, CO2

5.3 Advice for firefighters:

Self-contained breathing apparatus (EN 133). Wear full protective suit.

5.4 Additional information:

Contaminated water may not enter in sewers or drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Avoid raising dust. Use personal protective equipment, see Section 8

6.1.2 For emergency responders: Ventilate closed places. Use personal protective equipment, see Section 8

6.2 Environmental precautions:

May not enter in sewers or drains.

6.3 Methods and material for containment and cleaning up:

Collect mechanically. Dispose of contaminated material as waste according to section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

No special precautions necessary if handled correctly.

Store in original packaging. Risk of confusion.

Handle according to instructions on the label.

7.2 Conditions for safe storage, including any incompatibilities:

Tight closed. Dry.

Store out of range from sources of ignition and heat.

Storage Class: 13 Non-flammable solids in non-flammable package

7.3 Specific end use(s):

See section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Dust (OEL - Occupational Exposure Limits)	No exposure limits known for components

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Provide eyewash station.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Face shield is recommended. Wear safety glasses with side shields (or goggles). Use tight fitting goggles if dust is generated.

Hand protection: Wear appropriate chemical resistant gloves.

Respiratory protection: Use approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Respiratory protection not required.

Other: Wear suitable protective clothing.

Considerations: Keep away from food and drinks. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. National regulations for fertilizers may apply.

8.2.3 Environmental protection measures: Avoid discharge into sewers or drains, water courses or onto the ground.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state: Solid

Form: Powder

Color: brown black

Odor: None

Solubility in water: water-soluble

pH: 9.0 – 10.0

Apparent density: 0.6-0.65g/cm3

Flammability: The product itself does not burn. Decomposes on heating from 260 ° C approx.

Oxidizing properties: Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Slightly reactive

10.2. Chemical stability:

Stable under normal conditions (see section 7)

10.3 Possibility of hazardous reactions:

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid:

Contact with strong oxidants

10.5 Incompatible materials:

Strong oxidizing agents

10.6 Hazardous decomposition products:

CO, CO2 in case of fire

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute Oral Toxicity: LD50/oral/rat: > 2000mg/kg

Skin irritation: No irritable effect on skin (rabbit)

Sensitization: Can have sensitizing effects

Carcinogenicity: no data available

Genotoxicity in vitro: no data available

Toxicity for reproduction: no data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

12.1.1 Ecotoxicity (for pure chemicals):

Acute toxicity for fish (Poecilia reticulata) acc. EU C.1

24 hours – LC50 > 128 mg/L 48 hours – LC50 > 128 mg/L 72 hours – LC50 > 128 mg/L 96 hours – LC50 > 128 mg/L	24 hours – NOEC = 128 mg/L 48 hours – NOEC = 128 mg/L 72 hours – NOEC = 128 mg/L 96 hours – NOEC = 128 mg/L

Acute toxicity for dafnie (Daphnia magna) acc. EU C.2

24 hours – LC50 > 116 mg/L 48 hours – LC50 > 116 mg/L	24 hours – NOEC = 116 mg/L 48 hours – NOEC = 116 mg/L

Alga growth inhibition: No data available

Act. sludge respiration inhibition (acc. EU C.11): EC_{50} > 1000 mg/L

12.2 Persistence and degradability:

The substance is not easily degradable biologically. 2% decomposition within 28 days. Abiotic decomposition - Hydrolysis as a pH function: under pH 4.7 and 9 (25oC) is the decomposition half time longer than 1 year.

12.3 Bioaccumulative potential:

Coefficient of distribution: log POW = -2.16 ± 0.45 (pH=9.1; 23°C); Bio-concentrating factor (BCF): No data available.

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12.4 Mobility in soil:

High amounts oft he product can pollute ground and surface water. Therefore it is necessary to take care of accurate handling to avoid the leakage of the concentrated product into ground and surface water.

12.5 Results of PBT and vPvB assessment:

No data available

12.6 Other adverse effects:

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal instructions:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

13.2 Local disposal regulations:

Dispose in accordance with all applicable regulations.

13.3 Hazardous waste code:

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

13.4 Waste from residues / unused products:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

13.5 Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	International Sea (IMDG)	International Air (ICAO/IATA)
14.1 UN Number	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	No transport warning sign required	No transport warning sign required	No transport warning sign required
14.4 Packing group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	See: Section 2	See: Section 2	See: Section 2
14.6 Special precautions for user	See: Section 6&7	See: Section 6&7	See: Section 6&7
14.7 Transport in bulk according to Annex II or MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable
Transport/Additional Information	Not applicable	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling in line of EEC regulation: This product is not classified as dangerous

SECTION 16: OTHER INFORMATION

Bibliographical references and data origins:

Directives:

Preparations directive (1999/45/EG) as last amended by Commission Directive (EG) No. 1907/2006. Substance Directive (67/548/EWG), as last amended by Commission Directive 2009/2/EG. REACH Directive (EG) No. 1907/2006, as last amended by Commission Directive (EU) Nr. 453/2010. Directive (EG) No. 1272/2008, as last amended by Commission Directive (EG) No. 790/2009.

Hazard notes referred to in section 2 and 3:

According to Directive (EG) No. 1272/2008:

None

According to Directive 67/548/EWG:

Based on available data the product is not a dangerous preparation as defined by the Chemicals Act and the Hazard Substance Directive. No specific labelling requirements according to the Hazard Substance Directive.

Methods according to item 9 of Directive (EG) No. 1272/2008 for the assessment of information for the purpose of classification:

None

This data is based on our present knowledge. It can neither be regarded as a product quality guarantee nor as a basis of a contractual legal relationship.

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