



# LUPOMAX<sup>®</sup>

SENSORY PLUS<sup>™</sup> CONCENTRATED HOP PELLETS

## Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

<b>1.1 Product Identifier</b>	LUPOMAX <sup>®</sup>
<b>1.2 Synonyms</b>	LUPOMAX <sup>®</sup> hop pellets
<b>1.3 Relevant Uses</b>	For use as an ingredient in the brewing of beer
<b>1.4 Supplier</b>	<b>John I. Haas, Inc.</b>
<b>1.5 Emergency Contact Details</b>	John I. Haas, Inc. 1600 River Rd., Yakima, WA 98902, USA Emergency phone: +1 509 469 4000 (office hours) Email: <a href="mailto:info@johnihaas.com">info@johnihaas.com</a>

### 2. HAZARD IDENTIFICATION

<b>2.1 Classification</b>	Not classified
<b>2.2 Label Elements</b>	N/A (not classified)
<b>2.3 Other Hazards</b>	Associated dust may be irritating to eyes, mouth and throat

### 3. COMPONENTS / INFORMATION ON INGREDIENTS

<b>Components</b>	The product consists entirely of pelletized hop cones of the cultivated hop plant <i>Humulus lupulus</i> that have been enriched by physical means. Different varieties of hops may be used as input material.
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### 4. FIRST AID MEASURES

#### 4.1 Description of First

##### Aid Methods:

- **Inhalation**
  - **Skin Contact**
  - **Eye Contact**
  - **Oral Ingestion**
- Move to fresh air
  - Wash skin thoroughly with soap and water
  - Flood the eye with plenty of water. If any symptoms persist obtain medical attention
  - Drink large amounts of water to dilute. Vomiting may occur but should not be induced. Obtain medical attention if symptoms persist

#### 4.2 Most important symptoms and Effects

None known. See Section 2.3.

#### 4.3 Indications of Immediate Medical

None known.

### 5. FIRE AID MEASURES

#### 5.1 Extinguishing Media

Carbon dioxide, dry powder, foam. Keep containers and surroundings cool with water spray. Great care should be taken using water/jet spray.

#### 5.2 Special Hazards Arising from Substance

Not known.

#### 5.3 Advice for Firefighters

Firefighters should wear self-contained positive pressure breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal Protection

Wear appropriate protective clothing – see Section 8.

#### 6.2 Environmental Precautions

Do not discharge onto the ground or into watercourses

#### 6.3 Methods for Cleaning Up

Normal clean-up procedures as for any agricultural commodity



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### 7. HANDLING AND STORAGE

#### 7.1 Precautions for Safe Handling

Avoid generating excessive dust. Avoid excessive contact with product. Use appropriate protective clothing as indicated in Section 8. Wash hands after use.

#### 7.2 Conditions for Safe Storage

To guarantee quality avoid heat, moisture and strong odors during storage. Pellets should not be exposed to temperatures above 20 °C (68 °F) since it is possible that gases are formed from hop constituents. The resulting pressure increase may cause bursting of the foils. Consequently, the pellets will be exposed to air and oxidation resulting in a considerable deterioration of quality. Suitable storage containers are thick gauge laminated foil bags, stainless steel and lacquered mild steel.

#### 7.3 Specific End Uses

The substance is manufactured for use as a food ingredient and should be used in accordance with applicable food legislation.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control Parameters

Not applicable.

#### 8.2 Exposure Controls:

- |                          |  |
|--------------------------|--|
| - Engineering Controls   | - Provide adequate ventilation                     |
| - Eye/Face Protection    | - Chemical goggles must be worn during handling    |
| - Hand Protection        | - Gloves possible (not mandatory)                  |
| - Skin Protection        | - Gloves possible (not mandatory)                  |
| - Respiratory Protection | - If in danger of generating dust, wear a facemask |





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### 9. PHYSICAL AND CHEMICAL PROPERTIES

a) Physical state	Pelleted powder
b) Color	Various shades of green
c) Odor	Characteristic, typical hoppy, depends on variety
d) Melting point/Freezing point	Not practical to measure
e) Boiling point	Not practical to measure
f) Flammability	Not practical to measure
g) Lower and upper explosion limit	Not practical to measure
h) Flash point	Not practical to measure
i) Auto-ignition temperature	Not practical to measure
j) Decomposition temperature	Not practical to measure
k) pH	Not practical to measure
l) Kinematic viscosity	Not practical to measure
m) Solubility	Insoluble
n) Partition coefficient n-octanol/water (log value)	Not practical to measure
o) Vapor pressure	Not practical to measure
p) Density [kg/m <sup>3</sup> ]	450 – 700
q) Relative vapor density	Not practical to measure
r) Particle characteristics	Not practical to measure



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### 10. STABILITY AND REACTIVITY

10.1 Reactivity	No reactivity hazards known.
10.2 Chemical Stability	Stable if stored according to Section 7.2 and 10.5
10.3 Possibility of Hazardous Reaction	None known.
10.4 Conditions to Avoid	See Section 7.2
10.5 Incompatible Materials	Alkalis and mineral acids.
10.6 Hazardous Decomposition Products	None known.

### 11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity	No data available. Hops and hop extracts are generally recognized as safe (GRAS) for their intended use in accordance with US FDA regulation, 21 CFR 170.30(c) and 170.3(f). Supported by a long history of safe use in brewing.
11.2 Skin Corrosion/Irritation	No data available
11.3 Serious Eye Damage/Irritation	No data available
11.4 Respiratory or Skin Sensitization	No data available
11.5 Germ Cell Mutagenicity	No data available
11.6 Carcinogenicity	No data available
11.7 Reproductive Toxicity	No data available
11.8 STOT- Single Exposure	No data available
11.9 STOT-Repeated Exposure	No data available
11.10 Aspiration Hazard	No data available



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### 12. ECOLOGICAL INFORMATION

<b>12.1 Ecotoxicity</b>	No data available
<b>12.2 Persistence and Degradability</b>	No data available. All-natural product
<b>12.3 Bioaccumulative Potential</b>	No data available. All-natural product, not expected to bioaccumulate
<b>12.4 Mobility in Soil</b>	No data available
<b>12.5 Results of PBT Exposure:</b>	No data available
<b>12.6 Other Adverse Effects Exposure</b>	No data available

### 13. DISPOSAL CONSIDERATIONS

<b>13.1 Product Disposal</b>	Dispose in accordance with all applicable local and national regulations.
<b>13.2 Container Disposal</b>	Labels should not be removed from containers until they have been cleaned. Contaminated containers should not be treated as household waste. Containers should be cleaned using appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

### 14. TRANSPORT INFORMATION

<b>14.1 UN-Number</b>	Non-hazardous for transport
<b>14.2 Shipping Name</b>	Non-hazardous for transport
<b>14.3 Transport Hazard Class</b>	N/A
<b>14.4 Packing Group</b>	Non-hazardous for transport
<b>14.5 Marine Pollutant</b>	No data available



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### 15. REGULATORY INFORMATION

**15.1 Safety, Health, and Environmental Regulations**      No data available

**15.2 Chemical Safety Assessments**      No data available

### 16. OTHER INFORMATION

The information in this safety data sheet is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on our present knowledge and should be used only as a supplement to information already in your possession concerning this product. It does not represent any guarantee of the properties of the product. The determination of whether and under what condition the product should be used is yours to make. We do not accept any liability for loss, injury or damage that may result from its use.



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