

# LUPOMAX®

Hop Pellets are not classified as dangerous products according to European Union legislation, and their use is as a food product in the brewing of beer. However, this safety data sheet is provided voluntarily according (as appropriate) to the principles of the Classification, Labelling and Packaging Regulations (Regulation (EC) No.1272/2008).

## Safety Data Sheet

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

**1.1 Product Identifier**      **Hop Pellets**

**1.2 Synonyms**                      Kettle Pellets, Hop Pellets, Lupulin Enriched Hop Pellets

**1.3 Relevant Uses**                      **For use as an ingredient in the brewing of beer**

**1.4 Supplier**                              **BarthHaas / John I. Haas, Inc.**

**1.5 Emergency Contact**              **BarthHaas / John I. Haas, Inc.**  
**Details**                                      1600 River Rd., Yakima, WA 98902, USA.  
Emergency phone: +1 509 469 4000 (office hours)  
Email: [info@johnihaas.com](mailto:info@johnihaas.com)

**Hopfenveredlung St. Johann GmbH**  
Mainburger Str. 15, 93358 St. Johann, Germany  
Emergency phone: +49 9444 878 0 (office hours)  
Email: [contact@hopfenveredlung.de](mailto:contact@hopfenveredlung.de)



## 2. HAZARD IDENTIFICATION

- 2.1 Classification** Not classified (Regulation (EC) No. 1272/2008)  
Not classified (Directive 67/548/EEC)
- 2.2 Label Elements** N/A (not classified)
- 2.3 Other Hazards** Associated dust may be irritating to eyes, mouth and throat.

## 3. COMPONENTS/INFORMATION ON INGREDIENTS

The product consists entirely of pelleted hop cones of the cultivated hop plant *Humulus lupulus* that have been enriched by physical means. Many different varieties and degrees of enrichment.

## 4. FIRST AID MEASURES

### 4.1 Description of First

#### Aid Methods:

- **Inhalation** - Move to fresh air
- **Skin Contact** - Brush off excess material and wash skin thoroughly with soap and water.
- **Eye Contact** - Flood the eye with plenty of water. If any symptoms persist obtain medical attention.
- **Oral Ingestion** - 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 container and surroundings cool with water spray. Great care should be taken using water/jet spray.

**5.2 Special Hazards** Not known  
**Arising from Substance**

**5.3 Advice for Firefighters** Fire fighters 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.

## 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 odours 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 for such uses is not subject to registration via REACH (Regulation (EC) No.1907/2006). It 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
  - If in danger of generating dust, wear goggles.
- **Eye/Face Protection**
  - Gloves possible (not mandatory)
  - Gloves possible (not mandatory)
- **Hand Protection**
  - If in danger of generating dust, wear a facemask
- **Skin Protection**
- **Respiratory Protection**



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>a) Physical state</b>	Pelleted powder
<b>b) Color</b>	Various shades of green
<b>c) Odor</b>	Characteristic, typical hoppy, depends on variety
<b>d) Melting point/Freezing point</b>	Not practical to measure
<b>e) Boiling point</b>	Not practical to measure
<b>f) Flammability</b>	Not practical to measure
<b>g) Lower and upper explosion limit</b>	Not practical to measure
<b>h) Flash point</b>	Not practical to measure
<b>i) Auto-ignition temperature</b>	Not practical to measure
<b>j) Decomposition temperature</b>	Not practical to measure
<b>k) pH</b>	Not practical to measure
<b>l) Kinematic viscosity</b>	Not practical to measure
<b>m) Solubility</b>	Not practical to measure
<b>n) Partition coefficient n-octanol/water (log value)</b>	Not practical to measure
<b>o) Vapor pressure</b>	Not practical to measure

<b>p) Density [kg/m<sup>3</sup>]</b>	450 - 700
<b>q) Relative vapor density</b>	Not practical to measure
<b>r) Particle characteristics</b>	Not practical to measure

## 10. STABILITY AND REACTIVITY

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



## 11. TOXICOLOGICAL INFORMATION

<b>11.1 Acute Toxicity</b>	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.
<b>11.2 Skin Corrosion/Irritation</b>	No data available
<b>11.3 Serious Eye Damage/Irritation</b>	No data available
<b>11.4 Respiratory or Skin Sensitization</b>	No data available
<b>11.5 Germ Cell Mutagenicity</b>	No data available
<b>11.6 Carcinogenicity</b>	No data available
<b>11.7 Reproductive Toxicity</b>	No data available
<b>11.8 STOT- Single Exposure</b>	No data available
<b>11.9 STOT-Repeated Exposure</b>	No data available
<b>11.10 Aspiration Hazard</b>	No data available

## 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

**13.1 Product Disposal** Dispose in accordance with all applicable local and national regulations.

**13.2 Container Disposal** 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

**14.1 UN-Number** Non-hazardous for transport

**14.2 Shipping Name** Non-hazardous for transport

**14.3 Transport Hazard Class** N/A

**14.4 Packing Group** Non-hazardous for transport

**14.5 Marine Pollutant** No data available

## 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.