



# Hexahop® Gold

## Safety Data Sheet

Hexahop Gold® is not classified as a dangerous product according to European Union legislation, and its 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).

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

<b>1.1 Product Identifier</b>	<b>Hexahop Gold®</b>
<b>1.2 Synonyms</b>	Reduced isomerized hop extract, 'Hexa', Hexahydroiso-humulones, Hexahydro-isoalpha extract, Hexahydro-iso-alpha-acids
<b>1.3 Relevant Uses</b>	For use as an ingredient in the brewing of beer
<b>1.4 Supplier</b>	<b>BarthHaas / John I. Haas, Inc</b>
<b>1.5 Emergency Contact Details</b>	<p>BarthHaas / BarthHaas UK Hop Pocket Lane, Paddock Wood, Kent, TN12 6DQ, UK Emergency phone: +44 1892 833 415 (09:00 – 17:30 MonThurs; 09:00 – 16:30 Fri, UK time) Email: <a href="mailto:enquiries@barthhaas.co.uk">enquiries@barthhaas.co.uk</a></p> <p><b>BarthHaas / John I. Haas, Inc.</b> 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></p>

### 2. HAZARDS IDENTIFICATION

<b>2.1 Classification</b>	Not classified (Regulation (EC) No. 1272/2008) Not classified (Directive 67/548/EEC)
<b>2.2 Label Elements</b>	N/A (not classified)
<b>2.3 Other Hazards</b>	This product is a natural product produced from hops for use as an ingredient for the brewing of beer. Ingestion of a large dose may cause irritation of mouth, throat and digestive tract. The product may cause eye irritation and prolonged handling may cause dermatitis.



### 3. COMPONENTS/INFORMATION ON INGREDIENTS

Components	Concentration (% m/m)	Hazard Classification
Potassium salts of hexahydroisohumulones	Ca. 20	Not classified
water	Balance	Not classified

### 4. FIRST AID MEASURES

#### 4.1 Description of First

##### Aid Methods:

- Inhalation
  - Skin Contact
  - Eye Contact
  - Oral Ingestion
- None
  - Wash skin thoroughly with soap and water.
  - Flood the eye with plenty of water. If any symptoms persist obtain medical attention.
  - The product is extremely bitter and so it is very unlikely that anyone would ingest large amounts. Nevertheless, should this happen, drink large amounts of water to dilute. Vomiting may occur but should not be induced. Consult a physician if any symptoms persist.

#### 4.2 Most important symptoms and Effects

May cause irritation of eyes if in contact with eyes

#### 4.3 Indications of Immediate Medical

None known

### 5. FIRE AID MEASURES

**5.1 Extinguishing Media** Carbon dioxide, dry powder, foam.

**5.2 Special Hazards Arising from Substance** The product is an aqueous solution and is therefore not expected to burn. No known unusual fire or explosion hazards.

**5.3 Advice for Firefighters** Wear self-contained 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**      Contain spillage using earth, sand or other inert material. Transfer to suitable sealed container prior to disposal. Flush area with hot soapy water to remove final traces. Use adequate ventilation or a respirator if in a confined area.

## 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**      Store at 15 – 25 °C (59 – 77°F). Keep container closed. Use open containers as soon as possible. Store in original container or suitable high-grade steel, low silicate glass or high-density polyethylene.
- 7.3 Specific End Uses**      The substance is manufactured for use as a food ingredient and for such uses is not subject 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:**

- |                                 |  |
|---------------------------------|--|
| - <b>Engineering Controls</b>   | - Not required.  |
| - <b>Eye/Face Protection</b>    | - Safety goggles.  |
| - <b>Hand Protection</b>        | - PVC, rubber, latex or nitrile gloves are all suitable and should |
| - <b>Skin Protection</b>        | - If danger of splashing wear PVC or rubber apron.                 |
| - <b>Respiratory Protection</b> | - Not required   |



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>a) Physical state</b>	Liquid
<b>b) Color</b>	Pale yellow/amber
<b>c) Odor</b>	Hoppy, resinous
<b>d) Melting point/Freezing point</b>	Not practical to measure
<b>e) Boiling point</b>	93 - 104 °C (200 - 220 °F)
<b>f) Flammability</b>	Non flammable
<b>g) Lower and upper explosion limit</b>	Not practical to measure
<b>h) Flash point</b>	Not applicable due to high water content
<b>i) Auto-ignition temperature</b>	Not practical to measure
<b>j) Decomposition temperature</b>	No hazardous decomposition when used for its intended use
<b>k) pH</b>	8.5 - 11.0
<b>l) Kinematic viscosity</b>	Ca. 2- 15 mPas at 20 °C (68 °F)
<b>m) Solubility</b>	Miscible. Will precipitate if acidified
<b>n) Partition coefficient n-octanol/water (log value)</b>	Not practical to measure
<b>o) Vapor pressure</b>	Not practical to measure



- p) Density [kg/m<sup>3</sup>]** Ca. 1,020
- q) Relative vapor density** Not applicable
- r) Particle characteristics** Not practical to measure

## 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** None known
- 10.5 Incompatible Materials** Will precipitate if acidified
- 10.6 Hazardous Decomposition Products** None known

## 11. TOXICOLOGICAL INFORMATION

Substance contains modified hop extracts, which may be safely used in beer, e.g. in accordance with US FDA regulation 21 CFR 172.560. The substance has not been fully assessed.

Not considered harmful by ingestion (see 4.1; the product is extremely bitter).

Not considered harmful in contact with skin, but observe precautions in section 8.2. May cause slight skin irritation due to its alkaline nature, but does not require classification as an irritant.

May cause slight eye irritation due to its alkaline nature, but does not require classification as an irritant. Observe precautions in section 8.2.

Skin sensitization – although some plant extracts can be sensitizing to the skin, there is no evidence of sensitization caused by this product.

## 12. ECOLOGICAL INFORMATION

To the best of our knowledge, the substance has not been fully assessed so its ecological information is not 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** Not listed
- 14.2 Shipping Name** N/A
- 14.3 Transport Hazard Class** Non-hazardous for transport
- 14.4 Packing Group** Not listed
- 14.5 Marine Pollutant** No data available
- 14.6 Special Precautions** None known

## 15. REGULATORY INFORMATION

- 15.1 Safety, Health, and Environmental Regulations** Not classified (Regulation (EC) No. 1272/2008)  
Not classified (Directive 67/548/EEC)  
The Substance is a food ingredient and is therefore not subject to registration via REACH (Regulation (EC) No. 1907/2006)
- 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.