

BarthHaas®

# Hexahop® 95

## Safety Data Sheet

Hexahop® 95 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

1.1 Product Identifier: **Hexahop® 95**

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1.2 Synonyms: Reduced isomerized hop extract  
'Hexa' Hexahydroiso-humulones  
Hexahydro-iso- $\alpha$  extract  
Hexahydro-iso- $\alpha$ -acids

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

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

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

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### 2. HAZARDS IDENTIFICATION

2.1 Classification: Not classified (Regulation (EC) No. 1272/2008)  
Not classified (Directive 67/548/EEC)

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2.2 Label Elements: N/A (not classified)

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2.3 Other Hazards: 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**

Component	Concentration	Hazard classification
Potassium salts of hexahydro-isohumulones	ca. 20%	Not classified
Water	Balance	Not classified

**4. FIRST AID MEASURES**

4.1 Description of First Aid Methods:

Inhalation: None  
Skin contact: Wash skin thoroughly with soap and water.  
Eye contact: Flood the eye with plenty of water. If symptoms persist obtain medical attention.  
Oral ingestion: The product is extremely bitter and so it is 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 Attention or Special Treatment: None known.

**5. FIRE AID MEASURES**

5.1 Extinguishing media: Carbon dioxide, dry powder and foam or water.

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 Containment: Contain spillage using earth, sand or other inert material

**Cleaning Up:** 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 product** Avoid generating excessive dust. Avoid excessive contact with product

**Safe Handling:** Use appropriate protective clothing as indicated in Section 8. Wash hands after use.

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**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 stainless steel, low silicate glass or high-density polyethylene

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**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.

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### 8.2 Exposure Controls

Engineering Controls: Not required..  
Eye/Face Protection: Safety goggles  
Hand Protection: PVC, rubber, latex or nitrile gloves  
Skin Protection: If danger of splashing wear PVC or rubber apron.  
Respiratory Protection: Not required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber liquid
Odour:	Hoppy, resinous
Odour Threshold:	No data available
pH:	8.5 - 11
Freezing Point:	No data available
Boiling Point:	93 - 104 °C (200 - 220 °F)
Flash Point:	Not applicable due to high water content
Evaporation Rate:	Not measured (high water content; substantial evaporation not expected at normal conditions)
Flammability:	Non flammable
Upper/Lower Flammability:	N/A
Vapour Pressure:	No data available
Vapour Density:	No data available
Density (kg/m <sup>3</sup> )	1.040 (± 5%) at 20 °C (68 °F)
Solubility in Water:	Miscible. Will precipitate if acidified.
Partition Coefficient:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity at 20 °C:	Approx. 2 -15 mPas at 20 °C (68 °F)
Explosive properties:	None known
Oxidising properties:	None known

## 10. STABILITY AND REACTIVITY

10.1 Reactivity: No reactivity hazards known

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10.2 Chemical Stability: Stable if stored in accordance with 7.2 and 10.5

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10.3 Possibility of Hazardous Reactions: None known

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10.4 Conditions to Avoid: None known

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10.5 Incompatible Materials: Will precipitate if acidified.

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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

Product disposal: Dispose in accordance with all applicable local and national regulations.

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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

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14.2 Shipping Name: N/A

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14.3 Transport Hazard Class: Non-hazardous for transport.

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14.4 Packing group: Not listed

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14.5 Environmental Hazards: Not listed

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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)

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15.2 Chemical Safety Assessment: No data available

#### 16. OTHER INFORMATIONS

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.