



BarthHaas®

PHA® water-based Classics

Safety Data Sheet

PHA® water-based Classics are not classified as dangerous products according to European Union legislation, and their use is as a food product. 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: PHA® water-based Classics

1.2 Synonyms:

1.3 Relevant Uses: Food ingredient

1.4 Supplier: **BarthHaas / BarthHaas UK Ltd.**

1.5 Emergency
Contact Details: Hop Pocket Lane, Paddock Wood, Kent, TN12 6DQ, UK
Emergency phone: +44 1892 833 415 (09:00 - 17:30 Mon-
Thurs; 09:00 - 16:30 Fri, UK time)
Email: sds@barthhaas.co.uk

2. HAZARDS IDENTIFICATION

2.1 Classification: Not classified (Regulation (EC) No. 1272/2008)

2.2 Label Elements: None

2.3 Other Hazards: None



3. COMPONENTS/INFORMATION ON INGREDIENTS

Aqueous emulsion of hop (*Humulus lupulus* L.) extracts.

4. FIRST AID MEASURES

4.1 Description of First Aid Methods:

<u>Inhalation:</u>	Move to fresh air
<u>Skin contact:</u>	Wash skin thoroughly with soap and water.
<u>Eye contact:</u>	Flood the eye with plenty of water. If any symptoms persist obtain medical attention
<u>Oral Ingestion:</u>	Drink water to dilute. Obtain medical attention if symptoms persist.

4.2 Most Important Symptoms and Effects:

None under normal use.
Symptoms/injuries after skin contact: none under normal use. In sensitive individuals, may cause skin irritation or sensitization. Sensitive individuals may develop contact dermatitis.
Symptoms/injuries after eye contact: contact may cause mild eye irritation with redness, production of tears, and other vision effects.
Symptoms/injuries after ingestion: if swallowed, may cause irritation of the gastrointestinal tract and discomfort with symptoms of nausea.

4.3 Indications of Immediate Medical Attention or Special Treatment:

None known

5. FIRE AID MEASURES

5.1 Extinguishing media:

Dry powder, foam, carbon dioxide 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:

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:

Small amounts (<10 liters) can be safely diluted with water and flushed into the drain. Do not discharge large amounts onto the ground or into watercourses - hold for disposal, or in the case of spillages, deal with this as indicated in Section 6.3.

6.3 Methods for Up: traces.

Contain spillage using earth, sand or other inert material. Transfer to suitable Cleaning sealed container prior to disposal. Flush area with hot soapy water to remove final traces.



7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:	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 refrigerated for best quality.
7.3 Specific End Uses:	The substance is an ingredient (flavoring) for foodstuffs. It is therefore not subject to registration via REACH (Regulation (EC) No. 1907/2006) for such uses. 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	<table><tr><td><u>Engineering Controls:</u></td><td>Not required</td></tr><tr><td><u>Eye/Face Protection:</u></td><td>Safety glasses to avoid splashing</td></tr><tr><td><u>Hand Protection:</u></td><td>PVC, rubber, latex or nitrile gloves.</td></tr><tr><td><u>Skin Protection:</u></td><td>Not normally required. Long-sleeved workwear recommended for sensitive individuals to avoid accidental skin contact</td></tr><tr><td><u>Respiratory Protection:</u></td><td>Not required.</td></tr></table>	<u>Engineering Controls:</u>	Not required	<u>Eye/Face Protection:</u>	Safety glasses to avoid splashing	<u>Hand Protection:</u>	PVC, rubber, latex or nitrile gloves.	<u>Skin Protection:</u>	Not normally required. Long-sleeved workwear recommended for sensitive individuals to avoid accidental skin contact	<u>Respiratory Protection:</u>	Not required.
<u>Engineering Controls:</u>	Not required										
<u>Eye/Face Protection:</u>	Safety glasses to avoid splashing										
<u>Hand Protection:</u>	PVC, rubber, latex or nitrile gloves.										
<u>Skin Protection:</u>	Not normally required. Long-sleeved workwear recommended for sensitive individuals to avoid accidental skin contact										
<u>Respiratory Protection:</u>	Not required.										



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white to pale yellow emulsion
Odor:	Hoppy, depends on specific character, for example, citrus aroma, etc.
Odor Threshold:	No data available
pH:	app. 8.5 - 9.5
Freezing Point:	Aqueous emulsion, will freeze at approximately 0 °C
Boiling Point:	100 °C (212 °F)
Flash Point:	Not applicable due to high water content
Evaporation Rate:	No data available
Flammability:	Non flammable
Upper/Lower Flammability:	N/A
Vapor Pressure:	No data available.
Vapor Density:	No data available.
Density (kg/m ³)	ca. 1 g/ml
Solubility in Water:	Miscible
Partition Coefficient:	Miscible in Water
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available.
Viscosity at 20 °C:	No data available
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing



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.
10.4 Conditions to Avoid:	See Section 7.2 do not freeze
10.5 Incompatible Materials:	None known
10.6 Hazardous Decomposition Products:	None known.

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity:	Not toxic.
11.2 Skin Corrosion/Irritation:	Not classified. Hop extracts may cause irritation and/or sensitization in certain individuals.
11.3 Serious Eye Damage/Irritation:	Not classified. Hop extracts may cause irritation and/or sensitization in certain individuals.
11.4 Respiratory or Skin Sensitization:	Not classified. Hop extracts may cause irritation and/or sensitization in certain individuals.
11.5 Germ Cell Mutagenicity:	OECD Guideline 471 (Bacterial Reverse Mutation Assay) on read-across substance Hop Extract EC 232-504-3: not mutagenic.
11.6 Carcinogenicity:	Hop extracts have GRAS status in USA for appropriate food use. Bacterial reverse mutation assay: not mutagenic.
11.7 Reproductive Toxicity:	Weight of evidence indicates lack of reproductive toxicity. See 11.6 above.
11.8 STOT-Single Exposure:	Weight of evidence indicates safety when used for its intended use - see 11.6 above.
11.9 STOT-Repeated Exposure:	Weight of evidence indicates safety when used for its intended use - see 11.6 above.
11.10 Aspiration Hazard:	Not an aspiration hazard.



12. ECOLOGICAL INFORMATION

12.1 Toxicity:	Not classified. Read across from hop extract EC 232-504-3: no toxicity at concentrations of components present.
12.2 Persistence and Degradability	Ultimate biodegradation (natural product).
12.3 Bioaccumulative Potential	Natural product, not expected to bioaccumulate.
12.4 Mobility in Soil:	Aqueous emulsion, hence bulk of product expected to be mobile.
12.5 Results of PBT: and vPvB Assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other Adverse Effects:	No data available.

13. DISPOSAL CONSIDERATIONS

Product disposal:	Dispose in accordance with all applicable local and national regulations.
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:	N/A
14.3 Transport Hazard Class:	Non-hazardous for transport
14.4 Packing group:	Non-hazardous for transport
14.5 Environmental Hazards	Not listed
Marine pollutant:	No data available
14.6 Special Precautions	None known

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations:	Not applicable - for food use.
15.2 Chemical Safety Assessment:	Not applicable - for food use.

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.