

BarthHaas®

# PHA® Topnotes

## Safety Data Sheet

PHA® products are not classified as dangerous products according to European Union legislation, and their use is as flavourings for food, for example 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: **PHA® Topnotes in PG**

1.2 Synonyms: `PHA® Topnotes are PHA® products manufactured from single variety hop oils, and will be named as the hop variety, e.g. `PHA® Goldings`, `PHA® Saaz`, .

1.3 Relevant Uses: To be used as a flavouring for foods and beverages. Not for direct consumption as an undiluted product.

1.4 Supplier: **BarthHaas / BarthHaas UK**

#### 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: [enquiries@barthhaas.co.uk](mailto:enquiries@barthhaas.co.uk)

### 2. HAZARDS 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: None

### 3. COMPONENTS/INFORMATION ON INGREDIENTS

Component	Concentration of the component	CAS no.	EINECS no.	Hazard classification of the individual component
Propylene glycol (propan-1,2-diol)	59-99 % w/w	57-55-6	200-338-0	Propylene glycol has a workplace exposure limit assigned. It is non-hazardous when used as directed. Propylene glycol is registered as a food additive in the European Union as E 1520.
Hop Oil	max. 1%	8007-04-3		Regulation (EC) No 1272/2008 Toxicity (Category 1). Dangerous Substances Directive; (67/548/EEC): Harmful: may Cause lung damage if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Methods:

once. Rinse nose  
attention if

**Inhalation:** Move the exposed person to fresh air at and mouth with water. Obtain medical discomfort continues.

**Skin contact:** Wash skin thoroughly with soap and water.

**Eye contact:** Wash eye with plenty of water. Obtain if symptoms persist.

medical attention  
conscious.

**Oral Ingestion:** Rinse mouth thoroughly provided person is Obtain medical attention if discomfort continues.

#### 4.2 Most Important

Symptoms and Effects: No data available. See Section 11

4.3 Indications of No Data available

Immediate Medical Attention or Special Treatment:

### 5. FIRE AID MEASURES

5.1 Extinguishing Carbon dioxide, water spray, dry powder and alcohol-resistant foam

Media:

#### 5.2 Special Hazards

Propylene glycol will give rise to toxic fumes in fire. Hop oil is combustible and may

Arising from give rise to hazardous fumes in a fire.

Substance:

#### 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.

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**6.2 Environmental Precautions:** Do not discharge onto the ground or into watercourses.

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**6.3 Methods for Transfer to suitable sealed container prior to disposal.** Contain spillage using earth, sand or other inert material. Wash spillage site with water. Do not contaminate water sources or sewer.

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## 7. HANDLING AND STORAGE

**7.1 Precautions for Safe Handling:** Avoid spilling, skin and eye contact.

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**7.2 Conditions for Safe Storage:** Keep container closed when not in use. Keep away from heat and from sources of ignition. Suitable storage is high-grade stainless steel, glass, aluminium or lacquered steel drums. Store at 0-20 °C (32-68 °F).

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**7.3 Specific End Uses:** The substance is manufactured from food ingredients and it is for use as a processing aid during the manufacture of 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

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 Control Parameters:** Components of the preparation for which there are workplace exposure limits:  
- Propylene glycol: UK: Long term exposure limit, measured as 8-hour time weighted average (TWA) (ref.1.3): 150 ppm (474 mg/m<sup>3</sup>) for total vapour and particulates; 10 mg/m<sup>3</sup> for particulates

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**8.2 Exposure Controls workplace inhalation of vapours**  
**goggles**  
**contact.**  
**apron.**

Engineering Controls: Provide adequate ventilation. Observe the exposure limits and minimize the risk of vapours

Eye/Face Protection: If in danger of splashing, wear chemical goggles

Hand Protection: Suitable protective gloves if risk of skin contact.

Skin Protection: If danger of splashing wear PVC or rubber apron.

Respiratory Protection: Not normally required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid, transparent to pale yellow
Odour:	Characteristic (depending on specific PHA® Product)
Odour Threshold:	No data available.
pH:	No data available.
Freezing Point:	No data available.
Boiling Point:	No data available. Data for propylene glycol: >150 °C (302 °F)
Flash Point:	>90 °C (194 °F)
Evaporation Rate:	No data available.
Flammability:	Not flammable. Data for propylene glycol: LEL 2.6%, UEL 12.5%
Upper/Lower Flammability:	No data available.
Vapour Pressure:	No data available. Data for propylene glycol: <10 mbar at 20 °C
Vapour Density:	No data available.
Density (kg/m <sup>3</sup> )	1.034 - 1.037
Solubility in Water:	Soluble
Partition Coefficient:	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity at 20 °C:	No data available
Explosive properties:	No data available. Data for propylene glycol: Heat or flame may cause explosions.
Oxidising properties:	No data available.

## 10. STABILITY AND REACTIVITY

10.1 Reactivity: No reactivity hazards known.

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10.2 Chemical Stability: Stable if stored according to Section 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: Avoid excessive heat for prolonged periods of time.

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10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

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10.6 Hazardous Decomposition Products: Fire creates carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

11. Acute Toxicity: Not known. The Product contains propylene glycol at 59 - 95 % w/w as indicated in Section 3. Propylene glycol is registered as a food additive in the EU as E 1520. Toxicological data for propylene glycol: LD<sub>50</sub> oral rat, mouse 22, 22 g kg<sup>-1</sup>, respectively (1) Propylene glycol may cause local irritation of skin and mucuous membranes (1). Spray and vapour in the eyes may cause irritation and smarting (2).

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11.2 Skin Corrosion/Irritation: No data available

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11.3 Serious Eye Damage/Irritation: No data available

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11.4 Respiratory or Skin Sensitisation: No data available

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11.5 Germ Cell Mutagenicity: No data available

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11.6 Carcinogenicity: No data available

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11.7 Reproductive Toxicity: No data available

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11.8 STOT-Single Exposure: No data available

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11.9 STOT-Repeated Exposure: No data available

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11.10 Aspiration Hazard: Not hazardous

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity: No data available  
The product contains propylene glycol at 59 - 95 % w/w as indicated in Section 3.  
Propylene glycol is not regarded as dangerous for the environment (2). Data for  
propylene glycol: LC<sub>50</sub> (24hr) goldfish >5000 mg l<sup>-1</sup> (1);  
EC<sub>50</sub> (24 and 48 hr) *Daphnia magna* > 10 g l<sup>-1</sup> (1)

12.2 Persistence and Degradability: No data available. Propylene glycol is biodegradable.

12.3 Bioaccumulative Potential: No data available. The bioconcentration of propylene glycol has been estimated as <1 (1)

12.4 Mobility in Soil: No data available. Miscible with water.

12.5 Results of PBT And vPvB Assessment: No data available

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

UN-Number: Non-hazardous for transport

Class: Non-hazardous for transport

Shipping name: N/A

Packing group: Non-hazardous for transport

Marine pollutant: No data available

## 15. REGULATORY INFORMATION

15.1 Safety, Health, and Environment: Not classified (Regulation (EC) No. 1272/2008)

**Environmental Regulations:** Not classified (Directive 67/548/EEC)  
The substance is a food ingredient and its 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.

References: (1) Dictionary of Substances and their Effects (DOSE), 3<sup>rd</sup> Electronic Edition, 2005 (Royal Society of Chemistry/.Knovel Corp.) (2) Supplier MSDS for propylene glycol. (3) EH40/2005 Workplace Exposure Limits, Health and Safety Executive, 2<sup>nd</sup> Edition 2011.