

PHA® Topnotes in PG Safety Data Sheet

Note

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 Preparation and of the Company		
1.1 Product Identifier:	PHA® Topnotes in PG	
Other Names:	'PHA® Topnotes' may include the name of the appropriate hop variety, e.g. 'Goldings', 'Saaz', etc. Product code 126350 and 126349.	
1.2 Relevant Uses	To be used as a flavouring for foods and beverages. Not for direct consumption as an undiluted product.	
1.3 Supplier:	BARTH-HAAS Group / BARTH-HAAS UK	
1.4 Emergency	Hop Pocket Lane, Paddock Wood, Kent, TN12 6DQ, UK	
Contact Details:	Emergency phone: +44 1892 833 415 (09:00 – 17:30 Mon-	
	Thurs; 09:00 – 16:30 Fri, UK time)	
	Email: enquiries@barthhaas.co.uk	
2. Hazards Identification		

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	CAS	EINECS	Hazard classification of the
		no.	no.	individual component
Propylene glycol (propan-1,2- diol)	Balance	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	max1%	8007- 04-3	_	Regulation (EC) No 1272/2008: Aspiration 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	Inhalation: Move the exposed person to fresh air at once.
Aid Methods:	Rinse nose and mouth with water. Obtain medical attention if
	discomfort continues.



		Skin Contact: Wash skin thoroughly with soap and water. Eye Contact: Wash eye with plenty of water. Obtain medical attention if symptoms persist. Oral Ingestion: Rinse mouth thoroughly provided person is
		conscious. Obtain medical attention if discomfort continues.
4.2	Most Important	No data available. See Section 11.
	Symptoms and Effects:	
4.3	Indication of Immediate Medical Attention or Special Treatment:	No data available.
5. F	ire-Fighting Measu	res
	Extinguishing media:	Carbon dioxide, water spray, dry powder and alcohol-resistant foam.
	Special Hazards Arising from Substance:	Propylene glycol will give rise to toxic fumes in fire. Hop oil is combustible and may give rise to hazardous fumes in a fire.
5.3	Advice for Firefighters:	Fire fighters should wear self-contained positive pressure breathing apparatus.
6. <i>A</i>	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. Wash spillage site with water. Do not contaminate water sources or sewer.
	łandling and Storaุ	ge
	Precautions for Safe Handling:	Avoid spilling, skin and eye contact.
7.2	Conditions for	Keep container closed when not in use. Keep away from heat
	Safe Storage: Specific End Uses:	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). The substance is manufactured for use as a food ingredient



8. Exposure Controls	/ Personal Protection			
8.1 Control		paration for which there are workplace		
Parameters:	exposure limits:	paration for which there are wereplace		
i arametere.	1 .	K: Long term exposure limit, measured		
		hted average (TWA) (refs.1,3):		
		ntod dvordgo (17777) (1616.11,6). n ³) for total vapour and particulates; 10		
	mg/m³ for particulate			
8.2 Exposure	Engineering Controls:	Provide adequate ventilation.		
Controls:	Engineering Controls.	Observe the workplace exposure		
Controlo.		limits and minimize the risk of		
		inhalation of vapours.		
	Eye/Face Protection:	If danger of splashing wear chemical		
	Eyen ace i rotection.	goggles.		
	Hand Protection:	Suitable protective gloves if risk of		
	Tiana i Totection.	skin contact.		
	Skin Protection:	If danger of splashing wear PVC or		
	<u>Gianti Totoctioni</u> .	rubber apron.		
	Respiratory Protection:	Not normally required.		
9. Physical and Chem		Trot Hormany required.		
Appearance:	Clear liquid, transparen	t to pale vellow		
Odour:				
Odour Threshold:	Characteristic (depending on specific PHA® product) No data available			
pH:	No data available No data available			
Freezing Point:	No data available No data available			
Boiling Point:		No data available. The boiling point of propylene glycol is		
Bolling Fourt.	>150 °C (302 °F)	boiling point of propyletic grycoris		
Flash Point:	>90 °C (194 °F)			
Evaporation Rate:	No data available			
Flammability:	No data available. Data for propylene glycol: LEL 2.6%, UEL			
i idililiability.	12.5%	a for propyletic grycor. LLL 2.070, OLL		
Upper/Lower	No data available			
Flammability:	110 data available			
Vapour Pressure:	No data available Data	a for propylene glycol: <10 mbar at		
vapour roccare.	20 °C	a for propytone gryoot. The modified		
Vapour Density:	No data available			
Density:	1,034 – 1,037 kg.m ⁻³			
Solubility in Water:	Soluble			
Partition Coefficient:	No data available			
Autoignition	No data available			
Temperature:	110 data available			
Decomposition	No data available			
Temperature:	110 data available			
Viscosity at 20 °C:	No data available			
Explosive properties:		a for propylene glycol: Heat or flame		
Explosive properties.	may cause explosions.	a for propyrene grycor. Heat or hame		
Oxidising properties:	No data available			
Oxidiality properties.	INU Uala avallable			



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10. Stability and Reac	
10.1 Reactivity:	No reactivity hazards known
10.2 Chemical	Stable if stored in accordance with 7.2 and 10.5.
Stability:	
10.3 Possibility of	None known
Hazardous	
Reactions:	
10.4 Conditions to	Avoid excessive heat for prolonged periods of time.
Avoid:	
10.5 Incompatible	Strong oxidizing substances. Strong acids. Strong bases.
Materials:	
10.6 Hazardous	Fire creates carbon monoxide (CO) and carbon dioxide (CO ₂).
Decomposition	
Products:	
11. Toxicological Info	mation
11.1 Acute Toxicity:	Not known.
	The product contains propylene glycol 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 ₅₀ oral rat, mouse
	20, 22 g kg ⁻¹ , 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).
11.2 Skin	No data available
Corrosion/Irritation:	
11.3 Serious Eye	No data available
Damage/Irritation:	Two data available
11.4 Respiratory or	No data available
Skin Sensitisation:	
11.5 Germ Cell	No data available
Mutagenicity:	Tho data available
	No data available
11.6 Carcinogenicity:	No data available No data available
11.7 Reproductive	INO Uata available
Toxicity:	No data available
11.8 STOT-Single	No data available
Exposure:	No. data a selection
11.9 STOT-Repeated	No data available
Exposure:	<u></u>
11.10 Aspiration	Not hazardous
Hazard:	



12. Ecological Informa	ntion
12.1 Toxicity:	No data available. The product contains propylene glycol as indicated in Section 3. Propylene glycol is not regarded as dangerous for the environment (2). Data for propylene glycol: LC_{50} (24 hr) goldfish >5000 mg I^{-1} (1); EC_{50} (24 and 48 hr) <i>Daphnia magna</i> >10 g I^{-1} (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 Consider	
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	tion
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 Informa	ation
15.1 Safety, Health and Environmental Regulations: 15.2 Chemical Safety	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). No data available
Assessment:	



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.

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