

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	Preparat	ion and of	the Compa	any		
1.1 Product Identifier:			opnotes ir				
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 Us	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: 1.4 Emergency Contact Details:		Barth-Haas Group / Botanix Ltd. 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: intray@botanix.co.uk					
2. Hazards Ider	ntification	on					
2.1 Classification:		Not classified (Regulation (EC) No. 1272/2008) Not classified (Directive 67/548/EEC)					
2.2 Label Elem	ents:	N/A (not classified)					
2.3 Other Haza	rds:	None					
3. Components	/Inform	ation on	Ingredient	s			
Component	Conce	entration	CAS no.	EINECS no.	Hazard classification of the 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. F	irst Aid Measures	
	Description of First Aid Methods: Most Important Symptoms and	Inhalation: Move the exposed person to fresh air at once. 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. No data available. See Section 11.
4.0	Effects:	NIs data avallable
4.3	Indication of Immediate Medical Attention or Special Treatment:	No data available.
5. F	ire-Fighting Measu	res
	Extinguishing	Carbon dioxide, water spray, dry powder and alcohol-resistant
	media:	foam.
5.2	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. A	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.
	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.
7. H	landling and Storaดู	ge
	Precautions for Safe Handling:	Avoid spilling, skin and eye contact.
	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).
7.3	Specific End Uses:	The substance is manufactured for use as a food ingredient and for such uses it 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	Components of the pre	paration for which there are workplace		
Parameters:	exposure limits:			
	Propylene glycol: Ul	K: Long term exposure limit, measured		
	as 8-hour time weighted average (TWA) (refs.1,3):			
		³) for total vapour and particulates; 10		
	mg/m ³ for particulate	es.		
8.2 Exposure	Engineering Controls :	Provide adequate ventilation.		
Controls:		Observe the workplace exposure		
		limits and minimize the risk of		
		inhalation of vapours.		
	Eye/Face Protection:	If danger of splashing wear chemical		
		goggles.		
	Hand Protection:	Suitable protective gloves if risk of		
	Oldin Drotte etiene	skin contact.		
	Skin Protection:	If danger of splashing wear PVC or		
	Popriretory Protection:	rubber apron.		
9. Physical and Chemi	Respiratory Protection:	Not normally required.		
Appearance:	Clear liquid, transparen	t to pale vellow		
Odour:		ng on specific PHA® product)		
Odour Threshold:	No data available	ig on specific i TiA® product)		
pH:	No data available			
Freezing Point:	No data available			
Boiling Point:		boiling point of propylene glycol is		
209 . 0	>150 °C (302 °F)	zeming pemit et propytette glycerte		
Flash Point:	>90 °C (194 °F)			
Evaporation Rate:	No data available			
Flammability:	No data available. Data	a for propylene glycol: LEL 2.6%, UEL		
•	12.5%	,		
Upper/Lower	No data available			
Flammability:				
Vapour Pressure:	No data available. Data 20 °C	a for propylene glycol: <10 mbar at		
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:				
Decomposition	No data available			
Temperature:				
Viscosity at 20 °C:	No data available			
Explosive properties:		a 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 10.2 Chemical Stability: 10.3 Possibility of Hazardous Reactions: 10.4 Conditions to Avoid: 10.5 Incompatible Materials: 10.6 Hazardous Decomposition Products: 11.1 Acute Toxicity: Not known 11.1 Acute Toxicity: Not known 11.2 Skin Corrosion/Irritation: 11.3 Serious Eye Damage/Irritation: 11.4 Respiratory or Skin Sensitisation: 11.5 Germ Cell Mutagenicity: No data available Exposure: 11.9 STOT-Repeated Exposure: 11.9 STOT-Repeated Exposure: 11.0 Aspiration Not hazardous Not data available Exposure: 11.10 Aspiration Not hazardous Not hazar		
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12. Ecological Informa	ation
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 l ⁻¹ (1); EC ₅₀ (24 and 48 hr) <i>Daphnia magna</i>
	>10 g l ⁻¹ (1).
12.2 Persistence and	No data available. Propylene glycol is biodegradable.
Degradability:	
12.3 Bioaccumulative	No data available. The bioconcentration of propylene glycol
Potential:	has been estimated as <1 (1).
12.4 Mobility in Soil:	No data available. Miscible with water.
12.5 Results of PBT	No data available
and vPvB	
Assessment:	
12.6 Other Adverse	No data available
Effects:	
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	
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	
15.1 Safety, Health	Not classified (Regulation (EC) No. 1272/2008)
and	Not classified (Directive 67/548/EEC)
Environmental	The substance is a food ingredient and is therefore not subject
Regulations:	to registration via REACH (Regulation (EC) No. 1907/2006).
15.2 Chemical Safety	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.

References: (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.

Date of issue: 13 January 2014