

Pure Hop Aroma (PHA®)

Generic PHA in propylene glycol (PG)

Material Safety Data Sheet

1. Product and Supplier Information	
Name:	Pure Hop Aroma
Synonyms:	Late Hop Essence
Supplier:	Barth-Haas Group/Botanix Ltd. Hop Pocket Lane, Paddock Wood, Kent, TN12 6DQ, UK Emergency phone: +44 1892 836 555 Email: inray@botanix.co.uk
2. Components/Composition	
Pure Hop Aroma Products are available in different generic characters. This MSDS applies equally to all.	
Propylene Glycol	60%
CAS number:	57556
Einecs number:	200-338-0
TSCA:	N/A
3. Health Hazard Data	
Main hazards:	Not flammable
Oral ingestion:	None
Eye contact:	Irritating to eyes if undiluted
Skin contact:	Prolonged contact may cause dermatitis
4. Emergency and First Aid Procedures	
Oral ingestion:	Wash out mouth with water. Give plenty of water to drink.
Eye contact:	Flood the eye with plenty of water. If symptoms persist obtain medical attention
Skin contact:	Wash skin thoroughly with soap and water.
5. Fire and Explosion Hazard Data	
Extinguishing media:	Carbon dioxide, water spray, dry powder and foam
Special fire fighting procedures:	none
Unusual fire and explosion hazards:	Great care should be taken if using water jet.

6. Accidental Release/Spill measures	
Personal protection:	Wear appropriate protective clothing.
Environmental precautions:	Prevent material from entering drains or water courses.
Shut of all sources of ignition. Contain spillage using earth, sand or other inert material. Transfer to suitable sealed container prior to disposal.	
7. Handling and Storage	
Storage temperature:	0-20 °C (32-68 °F)
Keep container closed when not in use. Suitable storage is high grade stainless steel, glass, aluminum or lacquered steel drums.	
8. Exposure Controls/Personal Protection	
Respirator:	Not required
Hand protection:	PVC or rubber gloves
Body protection:	If danger of splashing wear PVC or rubber apron.
Eye protection:	Chemical goggles must be worn during handling.
9. Physical and Chemical Properties	
Form:	Clear liquid
Color:	Transparent to pale yellow
Odor:	Characteristic (depending on specific PHA product)
Boiling Point:	186-190 °C (367-374 °F)
Density (kg/m ³):	1020
Solubility in Water:	Complete
Solubility in Alcohol:	Complete
Flash point:	103 °C (217 °F)
Lower explosion limit:	2.6%
Upper explosion limit:	12.6%
Ignition temperature:	415 °C (779 °F)
10. Stability and Reactivity	
Stable under normal conditions. Hazardous combustion and decomposition are not to be expected.	
Incompatibility:	Oxidizing material
11. Toxicological Information	
Propylene glycol is registered as food additive in EU directive 95/2/EC as E 1520	
12. Ecological Information	
Mobility:	Soluble with water
Bioaccumulation:	Product is not expected to bioaccumulate.
Exoticity:	no data
13. Disposal Considerations	
Product disposal:	Dispose of 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

Description:	Extract Flavouring Liquid
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Not classified as hazardous.

15. Regulatory Information

Labelling according to US and EC regulations

R-phrases:	none
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S-phrases: S7	Keep container tightly closed
S16	Keep away from sources of ignition – No smoking

16. Other Information

The information in this Safety Data sheet is correct to the best of our knowledge. This information should be used only as a supplement to information already in your possession concerning this product. The determination of whether and under what condition the product should be used by your employees is yours to make. We do not accept any liability for loss, injury or damage that may result from its use.