

## **Tetrahop Gold®**

## **Material Safety Data Sheet**

1. Product and Supplier Information		
Name:	Tetrahop Gold®	
Synonyms:	Reduced isomerized hop extract	
	'Tetra' Tetrahydroiso-humulones	
	Tetrahydro-iso-alpha extract	
	Tetrahydro-iso-alpha-acids	
Supplier:	Barth-Haas Group/Botanix Ltd.	
	Botanix Ltd., The Moor, Eardiston, Tenbury Wells,	
	Worcestershire, WR15 8JJ, UK	
	Emergency phone: +44 1568 797895 or +44 1584 875395	
	Email: intray@botanix.co.uk	
	Barth-Haas Group/John I. Haas, Inc.	
	5185 MacArthur Boulevard, N.W., Suite 300,	
	Washington, DC, 20016 USA	
	Emergency phone: +1 202 777 4800	
	Email: info@johnihaas.com	
2. Components/Com		
Aqueous solution of	8.6%-9.4%	
potassium salts of		
Tetrahydro-iso-alpha-		
acids:	4.4.000/	
Potassium Hydroxide	1-1.99%	
3. Health Hazard Data		
Main hazards:	irritating to eyes and skin	
Oral ingestion:	Ingestion of large dose may cause irritation of mouth, throat	
Cua contacti	and digestive tract. It is extremely bitter and mildly alkaline.	
Eye contact:	Liquid will cause severe conjunctiva irritation and corneal	
Skin contact:	damage.	
Skin contact.	Liquid may cause irritation, prolonged contact may cause dermatitis.	
4. Emergency and Fi		
Oral ingestion:	Drink large amounts of milk or water to dilute. Follow with fruit	
	juice to neutralize. Vomiting may occur but should not be induced. Consult a physician.	
Eye contact:	Flood the eye with plenty of water. Obtain medical attention.	
Skin contact:	Wash skin thoroughly with soap and water.	
5. Fire and Explosion		
Extinguishing media:	Not applicable	
Special fire fighting	None	
procedures:		
Unusual fire and	None	
explosion hazards:		
•		
Lel:	Not applicable	
Uel:	Not applicable	



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6. Accidental Release	e/Spill measures	
Personal protection:	Wear appropriate protective clothing.	
Environmental	Prevent material from entering drains or water courses.	
precautions:		
	or other absorbent material. Scoop/shovel into disposal	
	with water to remove final traces.	
7. Handling and Stora		
Storage temperature		
Keep container closed	when not in use. Use open containers as soon as possible.	
	h grade stainless steel, glass and high density polyethylene.	
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 Chen	nical Properties	
Form:	Liquid	
Colour:	Yellow to amber	
Odour:	Characteristic	
Boiling Point:	200-220°F (93-104°C)	
Density (kg/m <sup>3</sup> ):	1020 at 20 °C (typical)	
Solubility in Water:	Miscible, will precipitate if acified	
Solubility in Alcohol:	Miscible	
PH:	8.5-11.0	
Flash point:	Not applicable due to high water content	
Evaporation Rate:	<1 (aqueous solution)	
10. Stability and Read	ctivity	
Combustion will generate oxides of carbon, small amounts of aldehydes, ketones and		
alcohols. Stable under	normal conditions. No known incompatibilities.	
11. Toxicological Info	ormation	
Substance is a modifie	ed hop extract which may safely be used in beer in accordance	
with FDA food additive	regulation 21 CFR 172 560 (b) (6).	
Acute toxicity: Low ord		
12. Ecological Information		
Mobility:	Major part of product will dissolve rapidly in water.	
Bioaccumulation:	Product is not expected to bioaccumulate.	
Exoticity:	No data	

landfill or incineration as appropriate.

Dispose of in accordance with all applicable local and national

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

13. Disposal Considerations

regulations.

Product disposal:

Container disposal:



14. Transport Information		
UN-No: N/C	RID: N/C	
Class: N/C	Packing Group: N/C	
15. Regulatory Information		
Labeling according to US and EC regulations		
R-phrases:	None	
S-phrases:	None	
Einecs Listing:	No data	

## 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.