

Tetrahop Platinum® Safety Data Sheet

Note

Tetrahop Platinum® is not classified as a dangerous product according to European Union legislation, and its use is as a food product 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	1. Identification of the Substance and of the Company					
1.1 Product Identifie	r: Tetrahop Pla	ntinum®				
Synonyms:		Reduced isomerized hop extract, 'Tetra', Tetrahydroiso-				
	•	humulones, Tetrahydro-iso-alpha extract, Tetrahydro-iso-				
	alpha-acids					
1.2 Relevant Uses:		For use as an ingredient in brewing of beer.				
1.3 Supplier:		Group / Botanix				
1.4 Emergency	•	Lane, Paddock Wood, Kent, TN12 6DQ, UK				
Contact Details:	- 3 7	mergency phone: +44 1892 833 415 (09:00 – 17:30 Mon-				
	Thurs; 09:00 – 16:30 Fri, UK time)					
		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 (office hours) Email: info@johnihaas.com				
2. Hazards Identification						
2.1 Classification: Not classified (Regulation (EC) No. 1272/2008)						
Z.1 Olassilloation.		Not classified (Negalation (EG) No. 1272/2000) Not classified (Directive 67/548/EEC)				
2.2 Label Elements N/A (not class			10/220)			
2.3 Other Hazards:		is a bittering ingredient for beer. It is therefore				
2.0 0 0		extremely bitter, and it is mildly alkaline. Ingestion of a large				
		dose may cause irritation of mouth, throat and digestive tract.				
	,	Since the product is mildly alkaline, it may cause eye irritation				
		if in contact with eyes.				
3. Components/Information on Ingredients						
Component	Concentration	CAS no.	EINECS no.	Hazard		
				classification		
Potassium salts of						
tetrahydro-	ca. 9%	92113-15-0	295-619-8	Not classified		
isohumulones						
Water	Balance	7732-18-5	231-791-2	Not classified		
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1 First Aid Measures						



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4.1 Description of	Inhalation: None				
First Aid Methods:	Skin contact: Wash skin thoroughly with soap and water. Eye contact: Flood the eye with plenty of water. If any				
ivieti ious.	symptoms persist obtain medical attention.				
	Oral ingestion: The product is extremely bitter and so it is				
	very unlikely that anyone would ingest large amounts.				
	Nevertheless, should this happen, drink large amounts of				
	water to dilute. Vomiting may occur but should not be				
	induced. Consult a physician if any symptoms persist.				
4.2 Most Important	May cause irritation of eyes if in contact with eyes.				
Symptoms and					
Effects 4.3 Indication of Imme	ediate Medical None known.				
Attention or Speci					
5. Fire-Fighting Meas					
5.1 Extinguishing	Dry powder, foam, carbon dioxide or water				
Media:					
5.2 Special Hazards	The product is an aqueous solution and is therefore not				
Arising from	expected to burn. No known unusual fire or explosion				
Substance: 5.3 Advice for	hazards. Wear self contained breathing apparatus.				
Firefighters:	Wear sell contained breathing apparatus.				
6. Accidental Releas	e Measures				
6.1 Personal	Wear appropriate protective clothing – see Section 8.				
Protection:	Treat appropriate protective steaming to be because of				
6.2 Environmental	Do not discharge onto the ground or into watercourses.				
Precautions:					
6.3 Methods for	Contain spillage using earth, sand or other inert material.				
Cleaning Up:	Transfer to suitable sealed container prior to disposal. Flush				
7 Handling and Stor	area with hot soapy water to remove final traces.				
7. Handling and Stor 7.1 Precautions for	Avoid excessive contact with product. Use appropriate				
Safe Handling:	protective clothing as indicated in Section 8. Wash hands				
Oute Harianing.	after use.				
7.2 Conditions for	Store at $2-6$ °C ($36-43$ °F). Keep container closed. Use				
Safe Storage:	open containers as soon as possible. Store in original				
	container or suitable high-grade stainless steel, low silicate				
	glass or high-density polyethylene.				
7.3 Specific End	The substance is a food ingredient and is therefore not				
Uses:	subject to registration via REACH (Regulation (EC) No.				
	1907/2006). It should be used in accordance with applicable food legislation.				
	rood registation.				



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8. Exposure Controls	/Personal Protection				
8.1 Control	Not applicable.				
Parameters:					
8.2 Exposure	Engineering Controls:	Not required.			
Controls:	Eye/Face Protection:	Safety goggles.			
	Hand Protection:	PVC, rubber, latex or nitrile gloves.			
	Skin Protection:	If danger of splashing, wear a PVC			
	or rubber apron.				
	Respiratory Protection:	Not required.			
9. Physical and Chemical Properties					
Appearance:	Pale yellow/amber liquid				
Odour:	Hoppy, resinous				
Odour Threshold:	No data available				
pH:	8.5 – 11				
Freezing Point:	No data available				
Boiling Point:	93 – 104 °C (200 – 220 °C)				
Flash Point:	Not applicable due to high water content				
Evaporation Rate:	Not measured (high water content; substantial evaporation				
	not expected at normal conditions)				
Flammability:	Non flammable				
Upper/Lower	N/A				
Flammability:					
Vapour Pressure:	No data available				
Vapour Density:	No data available				
Density:	<i>ca</i> . 1,020 kg.m ⁻³				
Solubility in Water:	Miscible. Will precipitate if acidified.				
Partition Coefficient:	No data available				
Auto-ignition	No data available				
Temperature:					
Decomposition	No data available				
Temperature:					
Viscosity at 20 °C:	No data available				
Explosive Properties:	None known				
Oxidising Properties:	None known				
10. Stability and Read	1				
10.1 Reactivity:	No reactivity hazards kr				
10.2 Stability:	Stable under normal conditions, if stored in accordance with				
_	7.2 and 10.5				
10.4 Conditions to	None known				
Avoid:					
10.5 Incompatible	Will precipitate if acidified.				
Materials					
10.6 Hazardous	None known				
Decomposition					
Products					



11. Toxicological Information

Substance contains modified hop extracts, which may be safely used in beer, e.g. in accordance with US FDA regulation 21 CFR 172.560. The substance has not been fully assessed.

Not considered harmful by ingestion (see 4.1; the product is extremely bitter).

Not considered harmful in contact with skin, but observe precautions in section 8.2. May cause slight skin irritation due to its alkaline nature, but does not require classification as an irritant.

May cause slight eye irritation due to its alkaline nature, but does not require classification as an irritant. Observe precautions in section 8.2.

Skin sensitization – although some plant extracts can be sensitizing to the skin, there is no evidence of sensitization caused by this product.

12. Ecological Information

To the best of our knowledge, the substance has not been fully assessed so its ecological information is not available.

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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, recycled or disposed of in accordance with applicable local or national regulations.				
14. Transport Information					
14.1 UN-Number:	Not listed				
14.2 Shipping Name:	N/A				
14.3 Transport	Not hazardous for transport.				
Hazard Classes:					
14.4 Packing group:	Not listed				
14.5 Environmental Hazards	Not listed				
14.6 Special	None known				
Precautions					
15. Regulatory Information					
15.1 Safety, Health and Environmental Regulations:	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).				
15.2 Chemical	No data available				
Safety 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.

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