

Isohop® Safety Data Sheet

Note

Isohop® is not classified as dangerous products 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 the Substance and of the Company				
1.1 Product Identifie				
Synonyms:	Isomerized ho	p extract, 'Iso',	Postfermentation	n Bittering, 'PFB'
1.2 Relevant Uses:	For use as an	ingredient in br	ewing of beer.	
1.3 Supplier:	Barth-Haas C	Froup / Botanix	Ltd.	
1.4 Emergency	Hop Pocket L	ane, Paddock W	ood, Kent, TN12	2 6DQ, UK
Contact Details:	Emergency pl	none: +44 1892	833 415 (09:00	– 17:30 Mon-
	Thurs; 09:00 -	– 16:30 Fri, UK 1	time)	
		botanix.co.uk		
		∋roup/John I. H	,	
		iur Boulevard, N	I.W., Suite 300,	
		DC, 20016 USA		
			7 4800 (office ho	ours)
	Email: info@j	ohnihaas.com		
2. Hazards Identific		(= (=	<u> </u>	<u></u>
2.1 Classification:			C) No. 1272/200	8)
		(Directive 67/5	48/EEC)	
2.2 Label Elements	N/A (not class	/		
2.3 Other Hazards:	-	•	_	r. It is therefore
	_		,	estion of a large
	_			d digestive tract.
	<u> </u>	•	kaline, it may ca	use eye irritation
2 Componente/Inf	if in contact w			
3. Components/Inf	Concentration		EINECS no.	Hazard
Component	Concentration	CAS IIO.	EINECS IIO.	classification
	ca. 20% or			Classification
	30%			
Potassium salts of	depending on	94349-84-5	305-203-0	Not classified
isohumulones	customer			
	requirements			
	•			
Water	Balance	7732-18-5	231-791-2	Not classified
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		FOR YOUR SUCCESS	
4. F	First Aid Measures		
	Description of First Aid Methods: Most Important	Inhalation: None Skin contact: Wash skin thoroughly with soap and water. Eye contact: Flood the eye with plenty of water. If any 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. May cause irritation of eyes if in contact with eyes.	
	Symptoms and Effects		
	Indication of Imme Attention or Specia	al Treatment	
5. F	Fire-Fighting Meas	ures	
5.1	Extinguishing Media:	Dry powder, foam, carbon dioxide or water	
5.2	Special Hazards Arising from Substance:	The product is an aqueous solution and is therefore not expected to burn. No known unusual fire or explosion hazards.	
	Advice for Firefighters:	Wear self contained breathing apparatus.	
6. <i>A</i>	Accidental Release	e 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. Flush area with hot soapy water to remove final traces.	
7. ŀ	landling and Stora	age	
	Precautions for Safe Handling:	Avoid excessive contact with product. Use appropriate protective clothing as indicated in Section 8. Wash hands after use.	
	Conditions for Safe Storage:	Store at $2-8$ °C ($36-46$ °F). Keep container closed. Store in original container or suitable high-grade stainless steel, low silicate glass or high-density polyethylene. Protect from light.	
7.3	Specific End Uses:	The substance is a food ingredient and is therefore not subject to registration via REACH (Regulation (EC) No. 1907/2006). It should be used in accordance with applicable food legislation.	

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8. Exposure Controls	s/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 Chen				
Appearance:	Pale yellow/amber liquid	j		
Odour:	Hoppy, resinous			
Odour Threshold:		No data available		
pH:	7.5 – 10.5			
Freezing Point:	No data available			
Boiling Point:	93 – 104 °C (200 – 220 °C)			
Flash Point:	Not applicable due to hi	gh water content		
Evaporation Rate:		er 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:	1,000 – 1,200 kg.m ⁻³	1,000 – 1,200 kg.m ⁻³		
Solubility in Water:	Miscible. Will precipitate if acidified.			
Partition Coefficient:	Miscible in water			
Auto-ignition	No data available			
Temperature:				
Decomposition	No data available	No data available		
Temperature:				
Viscosity at 20 °C:	No data available			
Explosive Properties:	None known			
Oxidising Properties:	None known			
10. Stability and Rea				
10.1 Reactivity:	No reactivity hazards kn			
10.2 Stability:	Stable under normal conditions, if stored in accordance with			
10.10	7.2 and 10.5			
10.4 Conditions to Avoid:	Protect from light.			
10.5 Incompatible Materials	Will precipitate if acidified.			
10.6 Hazardous Decomposition Products	None known			



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.

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		

	of in accordance with applicable local of flational 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	Not listed	
Hazards		
14.6 Special	None known	
Precautions		

15. Regulatory Information

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).

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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