

Hop Oil Safety Data Sheet

1. Identification of the	Preparation and of the	ne Compa	any	
1.1 Product Identifier:	Hop Oil			
Other Names:	Hops Oil, Hop Oil HAL, Hop Oil No 1, Varietal Hop Oil			
1.2 Relevant Uses	This product is manufactured for use as a flavouring			
	preparation for foods	and beve	rages. Hops are a traditional	
	ingredient of beer. N	ot for dire	ct consumption as an undiluted	
	product.			
1.3 Supplier:	Barth-Haas Group /			
1.4 Emergency	Hop Pocket Lane, Paddock Wood, Kent, TN12 6DQ, UK			
Contact Details:			33 415 (09:00 – 17:30 Mon-	
	Thurs; 09:00 – 16:30	•	ne)	
	Email: intray@botanix	k.co.uk		
2. Hazards Identificati			(50) 11 (650)	
2.1 Classification:			egulation (EC) No 1272/2008	
	Aspiration Toxicity (C	ategory 1)	
		P 4	71 D	
		_	U Dangerous Substances	
	Directive (67/548/EE	•	are it entellement the	
	_	_	age if swallowed. Harmful to	
	the aquatic environment		long-term adverse effects in	
2.2 Label Elements:			ation (EC) No 1272/2008	
Z.Z Edber Elemento.	Labelling according	To regul	ution (20) 110 121212000	
	Pictogram:			
	Signal Word:	Danger		
	Hazard Statements:	H304	May be fatal if swallowed and	
	riazaru Staternents.	11304	enters airways	
		H413	May cause long lasting	
		11713	harmful effects to aquatic life	
	Precautionary	P273	Avoid release to the	
	Statements:	1 270	environment	
	Clatorionto.	P301 +	IF SWALLOWED:	
		P310	Immediately call a POISON	
		010	CENTER or doctor/physician.	
		P331	Do NOT induce vomiting	
		P405	Store locked up	
		P501	Dispose of contents/container	
			in accordance with local and	
			national regulations.	
	1	1	9	

2.2 Label Elements	Labelling according to Directive (67/548/EEC)
--------------------	---



			FOR YOUR SUCCESS
(continued):	Hazard Symbol:	×	
	Risk Phrases:	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
		R65	Harmful: may cause lung damage if swallowed
	Safety Phrases:	S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
2.3 Other Hazards:	reaction in some indiv		use irritation or an allergic see Section 11.4
3. Components/Inform	ation on Ingredients		
	Hop oil CAS number: 8007-04	4-3	
4. First Aid Measures			
4.1 Description of First Aid Methods:	Obtain medical attention Skin Contact: Wash Eye Contact: Wash medical attention. Oral Ingestion: Do N POISON CENTER or	ion. skin thore eye with OT induce doctor/ph	
4.2 Most Important Symptoms and Effects:	May be fatal if swallow	ved and e	nters airways
4.3 Indication of Immediate Medical Attention or Special Treatment:	doctor/physician.	mediately	call a POISON CENTER or
5. Fire-Fighting Measu			
5.1 Extinguishing media:	Carbon dioxide, dry p		
5.2 Special Hazards Arising from Substance:	in a fire.		give rise to hazardous fumes
5.3 Advice for Firefighters:	Fire fighters should w breathing apparatus.	ear self-co	ontained positive pressure



-			
6. Accidental Release			
6.1 Personal	Wear appropriate protective clothing – see Section 8.		
Protection:			
6.2 Environmental	Do not discharge onto the ground or into watercourses.		
Precautions:	Advise authorities if such spillage does occur,		
6.3 Methods for	Contain spillage using earth, sand or other inert material.		
Cleaning Up:	Transfer to suitable sealed container prior to disposal.		
7. Handling and Storag	ge		
7.1 Precautions for	Use only in well ventilated areas. Avoid inhalation of vapours,		
Safe Handling:	spilling, skin and eye contact.		
7.2 Conditions for	Keep container closed when not in use. Keep away from heat		
Safe Storage:	and from sources of ignition. Suitable storage is high-grade		
	stainless steel, glass or aluminium. Store in a cool place.		
7.3 Specific End Uses:	The substance is manufactured for use as a food ingredient		
'	and for such uses 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 /			
8.1 Control	Not applicable.		
Parameters:			
8.2 Exposure	Engineering Controls: Provide adequate ventilation.		
Controls:	Minimize the risk of inhalation of vapours.		
	Eye/Face Protection: If danger of splashing wear chemical		
	goggles.		
	Hand Protection: PVC or rubber gloves.		
	Skin Protection: If danger of splashing wear PVC or		
	rubber apron.		
	Respiratory Protection: Not normally required.		
9. Physical and Chemi			
Appearance:	Yellow/brown liquid		
Odour:	Characteristic		
Odour Threshold:	Not measured		
pH:	N/A		
Freezing Point:	Not measured		
Boiling Point:	Not measured		
Flash Point:	>60 °C		
Evaporation Rate:	Not measured		
Flammability:	No data available		
Upper/Lower	Not measured		
Flammability:			
Vapour Pressure:	Not measured		
Vapour Density:	Not measured		
Density:	850 – 910 kg.m ⁻³		
Solubility in Water:	Insoluble		
Partition Coefficient:	Not measured		
i artition obelitoent.	NOT HIGH SUITE		



	T
Autoignition	Not measured
Temperature:	
Decomposition	Not measured
Temperature:	
Viscosity at 20 °C:	3.9 cP measured for Hop Oil HAL.
Explosive properties:	No data available
Oxidising properties:	No data available
10. Stability and Reac	tivity
10.1 Reactivity:	No reactivity hazards known
10.2 Chemical	Stable if stored in accordance with 7.2 and 10.5
Stability:	
10.3 Possibility of	None known
Hazardous	
Reactions:	
10.4 Conditions to	Keep container closed when not in use. Keep away from heat
Avoid:	and from sources of ignition.
10.5 Incompatible	Oxidising agents
Materials:	
10.6 Hazardous	None known
Decomposition	
Products:	
11. Toxicological Info	rmation
11.1 Acute Toxicity:	LD ₅₀ oral, mouse: 3,500 mg.kg ⁻¹ .
The Atomic Toxicity:	LD ₅₀ oral, rat: 2,700 mg.kg ⁻¹ .
	Source: United States National Library of Medicine,
	ChemIDplus Lite.
11.2 Skin	No data available
Corrosion/Irritation:	
11.3 Serious Eye	No data available
Damage/Irritation:	
11.4 Respiratory or	No data available on hop oil. Hazardous Substances Data
Skin Sensitisation:	Bank (HSDB) includes a reference to myrcene (CAS
	123-35-3), which is a component of hop oil: "a 28-yr old man
	employed as a brewery inspector is presented with resp
	hypersensitivity reaction to beta-myrcene component of
	Humulus lupulus (hops). dermatitis, sneezing, itching &
	increased nasal congestion are reported 6 months prior to the
	presenting symptom complex."
11.5 Germ Cell	No data available
Mutagenicity:	
11.6 Carcinogenicity:	No data available
11.7 Reproductive	No data available
Tita Ropioduolivo	110 data available
Toxicity.	
Toxicity:	No data available
11.8 STOT-Single	No data available
11.8 STOT-Single Exposure:	
11.8 STOT-Single	No data available No data available



	, or , ook soccess
11.10 Aspiration Hazard:	Hop oil is classified by the European Flavour Association (EFFA) as Aspiration Toxicity (Category 1) due to its hydrocarbon content and viscosity. Hop oil typically contains the following hydrocarbons as major components: myrcene, humulene, caryophyllene, farnesene. The kinematic viscosity of hop oil HAL at 40 °C is 2.75 mm ² .s ⁻¹ .
12. Ecological Informa	ation
12.1 Toxicity:	No data available. Hop oil is classified by EFFA (COP 2008 version 2) as R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment", due to the presence of limonene at ~1%. Hop oil is extracted from hops (<i>Humulus lupulus</i>) and is a natural product – considered biodegradable.
12.2 Persistence and Degradability:	Hop oil is extracted from hops (<i>Humulus lupulus</i>) and is a natural product – considered biodegradable.
12.3 Bioaccumulative Potential	No data available. Hop oil is extracted from hops (<i>Humulus lupulus</i>) and is a natural product – considered biodegradable and not expected to bioaccumulate.
12.4 Mobility in Soil:	No data available
12.5 Results of PBT and vPvB Assessment:	No data available. Hop oil is extracted from hops (<i>Humulus lupulus</i>) and is a natural product – considered biodegradable.
12.6 Other Adverse Effects:	No data available
13. Disposal Consider	ations
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 Informat	
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 Information	
15.1 Safety, Health	No data available
and	
Environmental	
Regulations:	
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.

Date of issue: 13 January 2014