



Hop Oil Emulsions Safety Data Sheet

Hop Oil Emulsions are not classified as dangerous products according to European Union legislation, and their use is as a flavouring preparation, for example 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 Identifier	Hop Oil Emulsion
1.2 Synonyms	$\rm CO_2$ Hop Oil Emulsion, MD Hop Oil Emulsion, Botanix Hop Oil Emulsion – this MSDS is suitable for all of the named products
1.3 Relevant Uses	This product is manufactured for use as a flavoring preparation for foods and beverages. Not for direct consumption as an undiluted product.
1.4 Supplier	BarthHaas / BarthHaas UK
1.5 Emergency Contact Details	BarthHaas / BarthHaas UK Hop Pocket Lane, Paddock Wood, Kent, TN12 6DQ, UK Emergency phone: +44 1892 833 415 (09:00 – 17:30 Mon-Thurs; 09:00 – 16:30 Fri, UK time) Email: <u>enquiries@barthhaas.co.uk</u>
2. HAZARDS IDENTI	FICATION
2.1 Classification	Not classified (Regulation (EC) No. 1272/2008) Not classified (Directive 67/548/EEC)

2.2 Label Elements N/A (not classified)

None

2.3 Other Hazards





3. COMPONENTS/INFORMATION ON INGREDIENTS

Component	Concentration	Cas no.	FEMA no.	Hazard Classification of the individual component
Hop oil	0.1% - 1% v/v	8007-04-3	2580	Regulation (EC) No 1272/2008: Aspiration Toxicity (Category 1). Dangerous Substances Directive (67/548/EEC): Harmful: may cause lung damage if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Permitted emulsifiers	<0.5% w/v	-	-	Non-hazardous: included for information only
Water	Balance	-	-	Non-hazardous: included for information only

4. FIRST AID MEAS	SURES
4.1 Description of First Aid Methods: - Inhalation - Skin Contact - Eye Contact - Oral Ingestion	 Move the exposed person to fresh air. Obtain medical attention if discomfort persists. Wash skin thoroughly with soap and water. Wash eye with plenty of water. Obtain medical attention if irritation persists Rinse mouth with water provided person is conscious. Do not induce vomiting. Obtain medical attention.
4.2 Most important	
symptoms and Effects	- Low risk due to high aqueous content.
- Inhalation	- Prolonged contact may cause dermatitis
- Skin Contact	- May cause irritation.
 Eye Contact Oral Ingestion 	- A large dose may cause irritation of mouth, throat and digestive tract.
4.3 Indications of Immediate Medical	N/A

5. FIRE AID MEASURES		
5.1 Extinguishing Media	Dry powder, foam or carbon dioxide	
5.2 Special Hazards Arising from Substance	Hop oil may give rise to hazardous fumes in a fire. However, the product is an aqueous emulsion and is therefore not expected to burn. No known unusual fire or explosion hazards.	
5.3 Advice for Firefighters	Wear self-contained breathing apparatus.	





6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Protection	Wear appropriate protective clothing – see Section 8.
6.2 Environmental	Do not discharge onto the ground or into watercourses
Precautions	Advise authorities if such spillage does occur.
6.3 Methods for Cleaning	Contain spillage using earth, sand or other inert material
Up	Transfer to suitable sealed container prior to disposal.

7. HANDLING AND STORAGE		
7.1 Precautions for Safe Handling	Use only in well ventilated areas. Avoid inhalation of vapors, spilling, skin and eye contact	
7.2 Conditions for Safe Storage	Unopened containers can be stored for up to 6 months at 3 - 6 °C prior to use. Avoid storage of partly used containers since sterility may be compromised	
7.3 Specific End Uses	The substance is manufactured for use as a food ingredient and for such uses is not subject registration via REACH (Regulation (EC) No.1907/2006). It should be used in accordance with applicable food legislation.	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters Not applicable.

8.2 Exposure Controls:

- Engineering	-	Provide adequate ventilation. Minimize the risk of inhalation of vapors
Controls	-	If danger of splashing wear chemical goggles.
- Eye/Face Protection	-	PVC or rubber gloves.
- Hand Protection	-	If danger of splashing wear PVC or rubber apron.

- Skin Protection Not normally required
- Respiratory Protection





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a) Physical state	HEMICAL PROPERTIES Liquid
a) Physical state	Liquia
b) Color	White to yellow
c) Odor	Hoppy, resinous
d) Melting point/Freezing point	Not practical to measure
point	
e) Boiling point	Not practical to measure
f) Flammability	Non flammable
-,	
g) Lower and upper explosion limit	Not practical to measure
explosion mint	
h) Flash point	Not practical to measure
i) Auto-ignition	Not practical to measure
temperature	
j) Decomposition temperature	Not practical to measure
temperature	
k) pH	Not practical to measure
l) Kinematic viscosity	Not practical to measure
-, ,	
m) Solubility	Not practical to measure
n) Partition coefficient n-	Not practical to measure
octanol/water (log value)	
o) Vapor pressure	Not practical to measure
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p) Density [kg/m³]	Ca. 1.000			
q) Relative vapor density	Not applicable			
r) Particle characteristics	Not practical to measu	re		

10. STABILITY AND REACTIVITY		
10.1 Reactivity	No reactivity hazards known.	
10.2 Chemical Stability	Stable if stored according to Section 7.2 and 10.5	
10.3 Possibility of Hazardous Reaction	None known	
10.4 Conditions to Avoid	Product needs cold storage at 3 – 6 °C. Avoid storage of partly used containers as sterility may be compromised – see Section 7.2.	
10.5 Incompatible Materials	None known	
10.6 Hazardous Decomposition Products	None known	

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity	No data available. Due to the concentration and nature of the ingredients, the product is not classified as hazardous
11.2 Skin Corrosion/Irritation	No data available
11.3 Serious Eye Damage/Irritation	No data available
11.4 Respiratory or Skin Sensitization	No data available
11.5 Germ Cell Mutagenicity	No data available

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11.6 Carcinogenicity	No data available
11.7 Reproductive Toxicity	No data available
11.8 STOT- Single Exposure	No data available
11.9 STOT-Repeated Exposure	No data available
11.10 Aspiration Hazard	Hop oil is present at \geq 1% in an aqueous emulsion and thus the product does not present an aspiration hazard, and it is not classified as hazardous

12. ECOLOGICAL INFORMATION		
12.1 Ecotoxicity	No data available. Due to the concentration and nature of the ingredients, the product is not classified as hazardous.	
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	
12.4 Mobility in Soil	No data available	
12.5 Results of PBT Exposure:	No data available	
12.6 Other Adverse Effects Exposure	No data available	



13. DISPOSAL CONSIDERATIONS		
13.1 Product Disposal	Dispose in accordance with all applicable local and national regulations.	
13.2 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		
14.1 UN-Number	Non-hazardous for transport	
14.2 Shipping Name	N/A	
14.3 Transport Hazard Class	Non-hazardous for transport	
14.4 Packing Group	Non-hazardous for transport	
14.5 Marine Pollutant	Non-hazardous for transport	
14.6 Special Precautions	No data available	

15. REGULATORY INFORMATION

15.1 Safety, Health, and	Not classified (Regulation (EC) No. 1272/2008)
Environmental	Not classified (Directive 67/548/EEC)
Regulations	The substance is made from food ingredients and is for use in the manufacture of
	foodstuffs and is therefore not subject to registration via REACH (Regulation (EC)
	No.
	1907/2006).
15.2 Chemical Safety Assessments	No data available

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.



