🛕 HAAS 🛛 Barth Haas' 🛞

Whole Cone Hops

Hops are not classified as dangerous products according to European Union legislation, and their 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).

Safety Data Sheet 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier	Whole Cone Hops, Raw Hops	
1.2 Synonyms	Baled Hops, Cone Hops, Leaf Hops, Raw Cone Hops, Organic Cone Hops, Organic Raw	
1.3 Relevant Uses	For use as an ingredient in the brewing of beer	
1.4 Supplier	BarthHaas / BarthHaas UK Ltd.	
1.5 Emergency Contact	BarthHaas / John I. Haas, Inc.	
Details	1600 River Rd., Yakima, WA 98902, USA.	
	Emergency phone: +1 509 469 4000 (office hours)	
	Email: info@johnihaas.com	
	Hopfenveredlung St. Johann GmbH	
	Mainburger Str. 15, 93358 St. Johann, Germany	
	Emergency phone: +49 9444 878 0 (office hours)	
	Email: <u>contact@hopfenveredlung.de</u>	
	BarthHaas / John I. Haas, Inc. 1600 River Rd., Yakima, WA 98902, USA. Emergency phone: +1 509 469 4000 (office hours) Email: <u>info@johnihaas.com</u>	
	Hop Products Australia 26 Cambridge Road, Bellerive, Tasmania, Australia 7018. Emergency phone: +61 3 6282 2000 (office hours) Email: info@hops.com.au	



2. HAZARD INDENTIFCATION

2.1 Classification	Not classified (Regulation (EC) No. 1272/2008) Not classified (Directive 67/548/EEC)
2.2 Label Elements	N/A (not classified)
2.3 Other Hazards	Associated dust may be irritating to eyes, mouth and throat.

3. COMPONENTS/INFORMATION ON INGREDIENTS

The product consists entirely of hop cones of the cultivated hop plant *Humulus lupulus*. Many different varieties.

4. FIRST AID MEAS	URES		
4.1 Description of First			
Aid Methods:	- Move to fresh air		
- Inhalation	- Brush off excess material and wash skin thoroughly with soap and		
- Skin Contact	water.		
- Eye Contact	- Flood the eye with plenty of water. If any symptoms persist obtain		
- Oral Ingestion	medica attention.		
	- Drink large amounts of water to dilute. Vomiting may occur but		
	should not be induced. Obtain medical attention if symptoms persist.		
4.2 Most important	portant None known. See Section 2.3.		
symptoms and Effects			
4.3 Indications of	None known		
Immediate Medical			

5 FIRE AID MEASURES

5.1 Extinguishing Media	Carbon dioxide, dry powder, foam. Keep container and surroundings cool							
	with water spray. Great care should be taken using water/jet spray.							
5.2 Special Hazards	Not known							
Arising from Substance								
5.3 Advice for	Fire	fighters	should	wear	self-contained	positive	pressure	breathing
Firefighters	appa	ratus						

6. ACCDIENTAL RELEASE 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.	
6.3 Methods for Cleaning Up	Normal clean-up procedures as for any agricultural commodity.	

7. HANDLING AND STORAGE

7.1 Precautions for Safe	Avoid generating excessive dust. Avoid excessive contact with product.				
Handling	Use appropriate protective clothing as indicated in Section 8. Wash hands				
	after use.				
7.2 Conditions for Safe	To guarantee quality avoid heat, moisture and strong odours during storage.				
Storage	Raw Hops should not be exposed to temperatures above 20 $^{\circ}\text{C}$ (68 $^{\circ}\text{F})$ since				
	it is possible that gases are formed from hop constituents. The resulting				
	pressure increase may cause bursting of the foils. Consequently the raw hops				
	will be exposed to air and oxidation resulting in a considerable deterioration				
	of quality. Suitable storage containers are thick gauge laminated foil bags,				
	hessian or plastic bags. Best storage is in a cold (-2 to 4°C, 28 to 39 °F) dry				
	area, protected from weather influences and foreign odours. Maximum				
	moisture content should be 12%.				
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 / PERSONAL PROTECTION

8.1 Control Parameters Not applicable.

8.2 Exposure Controls:

-	Engineering	-	Provide adequate ventilation
	Controls	-	If in danger of generating dust, wear goggles.
-	Eye/Face	-	Gloves possible (not mandatory)
	Protection	-	Gloves possible (not mandatory)
-	Hand Protection	-	If in danger of generating dust, wear a facemask
-	Skin Protection		
-	Respiratory		

Protection





9. PHYSICAL AND CHEMICAL PROPERTIES

a) Physical state	Whole hop cones, sometimes compressed.
b) Color	Various shades of green
c) Odor	Characteristic, typical hoppy, depends on variety
d) Melting point/Freezing point	Not practical to measure
e) Boiling point	Not practical to measure
f) Flammability	Not practical to measure
g) Lower and upper explosion limit	Not practical to measure
h) Flash point	Not practical to measure
i) Auto-ignition temperature	Not practical to measure
j) Decomposition temperature	Not practical to measure
k) pH	Not practical to measure
l) Kinematic viscosity	Not practical to measure
m) Solubility	Insoluble
n) Partition coefficient n-octanol/water (log value)	Not practical to measure
o) Vapor pressure	Not practical to measure

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Rev. 11 **p) Density [kg/m³]**450 - 700 (80 - 200 if not compressed) **q) Relative vapor hot practical to measure density r) Particle**Not practical to measure **characteristics**

10. STABILITY AND REACTIVITY10.1 ReactivityNo reactivity hazards known.10.2 Chemical StabilityStable if stored according to Section 7.2 and 10.5

10.3 Possibility of	None known
Hazardous Reaction	
10.4 Conditions to Avoid	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. Hops and hop extracts are generally recognized as safe (GRAS) for their intended use in accordance with US FDA regulation, 21 CFR 170.30(c) and 170.3(f). Supported by a long history of safe use in brewing.
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
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	No data available





12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity	No data available
12.2 Persistence and Degradability	No data available- All-natural product.
12.3 Bioaccumulative Potential	No data available. All-natural product, not expected to bioaccumulate
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	Non-hazardous for transport
14.3 Transport Hazard Class	N/A
14.4 Packing Group	Non-hazardous for transport

14.5 Marine Pollutant No data available

15. REGULATORY INFORMATION

15.1 Safety, Health, and	No data available
Environmental	
Regulations	

15.2 Chemical Safety	No data available
Assessments	





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.