

Raw Hops Safety Data Sheet

Note

Raw 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).

1. Identification of the	Preparation and of the Company
1.1 Product Identifier:	Raw Hops
Synonyms:	Baled Hops, Cone Hops, Leaf Hops
1.2 Relevant Uses	For use as an ingredient in the brewing of beer
1.3 Supplier:	Barth-Haas Group / Botanix Ltd.
1.4 Emergency Contact Details:	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: 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
	Hopfenveredlung St. Johann GmbH & Co. KG Mainburger Str. 15, 93558 St. Johann, Germany Emergency phone: +49 9444 878 0 (office hours) Email: contact@hopfenveredlung.de
	Hop Products Australia 26 Cambridge Road, Bellerive, Tasmania, Australia 7018. Emergency phone: +61 3 6282 2000 (office hours) Email: info@hops.com.au
2. Hazards Identification	on
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 Iupulus*. Many different varieties.

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4. F	irst Aid Measures	
4.1	Description of First Aid Methods:	Inhalation: Move to fresh air. Skin Contact: Brush off excess material and 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: 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 Symptoms and Effects:	None known. See Section 2.3.
	Indication of Immediate Medical Attention or Special Treatment:	None known.
	ire-Fighting Measu	res
5.1	Extinguishing media:	Carbon dioxide, dry powder and foam. Keep containers and surroundings cool with water spray. Great care should be taken using water/jet spray.
5.2	Special Hazards Arising from Substance:	Not known.
5.3	Advice for	Fire fighters should wear self-contained positive pressure
	Firefighters:	breathing apparatus.
6. <i>A</i>	Accidental 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. H	landling and Storaดู	ge
7.1	Precautions for Safe Handling:	Avoid generating excessive dust. Avoid excessive contact with product. Use appropriate protective clothing as indicated in Section 8. Wash hands after use.
7.2	Conditions for Safe Storage:	To guarantee quality avoid heat, moisture and strong odours during storage. Raw Hops should not be exposed to temperatures above 20 °C (68 °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 /	
8.1 Control Parameters:	Not applicable.
8.2 Exposure Controls:	Engineering Controls: Provide adequate ventilation. Eye/Face Protection: If in danger of generating dust, wear goggles.
	Hand Protection: Gloves possible (not mandatory) Skin Protection: Gloves possible (not mandatory) Respiratory Protection: If in danger of generating dust, wear a facemask.
9. Physical and Chemi	
Appearance:	Whole hop cones, sometimes compressed. Various shades of
	green
Odour:	Characteristic, typical hoppy, depends on variety
Odour Threshold:	No data available
pH:	No data available
Melting Point:	No data available
Boiling Point:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability:	No data available
Upper/Lower	No data available
Flammability:	
Vapour Pressure:	No data available
Vapour Density:	No data available
Density:	450 – 700 kg.m ⁻³ (80 – 200 if not compressed)
Solubility in Water:	Insoluble
Partition Coefficient:	No data available
Autoignition	No data available
Temperature:	
Decomposition	No data available
Temperature:	
Viscosity at 20 °C:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
10. Stability and React	ivity
10.1 Reactivity:	No reactivity hazards known
10.2 Chemical Stability:	Stable if stored in accordance with 7.2



10.3 Possibility of Hazardous Reactions:	None known
10.4 Conditions to Avoid:	See Section 7.2
10.5 Incompatible Materials:	None known
10.6 Hazardous	None known
Decomposition Products:	
11. Toxicological Infor	mation
11.1 Acute Toxicity:	No data available. Hops and hop extracts are generally
The product contains	recognized as safe (GRAS) for their intended use in accordance with US FDA regulation, 21 CFR 182.20. Supported by a long history of safe use in brewing.
11.2 Skin	No data available
Corrosion/Irritation:	Tto data dvallablo
11.3 Serious Eye	No data available
Damage/Irritation:	
11.4 Respiratory or	No data available
Skin Sensitisation:	TVO data available
11.5 Germ Cell	No data available
Mutagenicity:	TVO data available
11.6 Carcinogenicity:	No data available
11.7 Reproductive	No data available
Toxicity:	TVO data available
11.8 STOT-Single	No data available
Exposure:	The data available
11.9 STOT-Repeated	No data available
Exposure:	
11.10 Aspiration	No data available
Hazard:	
12. Ecological Informa	ition
12.1 Toxicity:	No data available
12.2 Persistence and	No data available. All-natural product.
Degradability:	·
12.3 Bioaccumulative	No data available. All-natural product, not expected to
Potential	bioaccumulate.
12.4 Mobility in Soil:	No data available
12.5 Results of PBT	No data available
and vPvB	
Assessment:	No. dete essellable
12.6 Other Adverse	No data available
Effects:	ations
13. Disposal Consider	
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 Information		
UN-Number:	Non-hazardous for transport	
Class:	Non-hazardous for transport	
Shipping name:	Raw Hops	
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.

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