

## Hop Pellets (Type 45 Pellets) Safety Data Sheet

## Note

Hop Pellets 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:	Enriched Hop Pellets (Type 45 Pellets)	
Synonyms:	PEL/PE 45, Kettle Pellets, Hop Pellets	
1.2 Relevant Uses	For use as an ingredient in the brewing of beer	
1.3 Supplier:		
1.4 Emergency	Barth-Haas Group / John I. Haas, Inc.	
Contact Details:	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	
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 pelleted hop cones of the cultivated hop plant Humulus		

The product consists entirely of pelleted hop cones of the cultivated hop plant *Humulus lupulus* that have been enriched by physical means. Many different varieties and

degrees of enrichment.

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4. F	First Aid Measures	
	Description of First Aid Methods: Most Important	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.  None known. See Section 2.3.
	Symptoms and Effects:	
	Indication of Immediate Medical Attention or Special Treatment:	None known.
5. F	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 Firefighters:	Fire fighters should wear self-contained positive pressure breathing apparatus.
6 4	Accidental Release	<u> </u>
	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:	Normal clean-up procedures as for any agricultural commodity.
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	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.
	Conditions for Safe Storage:	To guarantee quality avoid heat, moisture and strong odours during storage. Pellets 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 pellets will be exposed to air and oxidation resulting in a considerable deterioration of quality. Suitable storage containers are thick gauge laminated foil bags, stainless steel and lacquered mild steel.
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	Engineering Controls: Provide adequate ventilation.
Controls:	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	cal Properties
Appearance:	Pelleted powder; 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:	INO data available
Vapour Pressure:	No data available
Vapour Density:	No data available
Density:	450 – 700 kg.m <sup>-3</sup>
Solubility in Water:	Insoluble
Partition Coefficient:	No data available
	No data available
Autoignition Temperature:	No data avaliable
Decomposition	No data available
Temperature:	INO data available
Viscosity at 20 °C:	No data available
Explosive properties:	No data available
	No data available No data available
Oxidising properties:  10. Stability and React	
10.1 Reactivity:	No reactivity hazards known
10.1 Reactivity.	Stable if stored in accordance with 7.2
Stability:	Stable if Stored in accordance with 7.2
10.3 Possibility of	None known
Hazardous	INOTIC MILOWIT
Reactions:	
10.4 Conditions to	See Section 7.2
Avoid:	JOG OGGIUH 1.2
10.5 Incompatible	None known
Materials:	INOTIC VITORIT
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10.6 Hazardous	None known				
Decomposition					
Products:					
11. Toxicological Infor	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 182.20. Supported by a long history of safe use in brewing.				
11.2 Skin	No data available				
Corrosion/Irritation:					
11.3 Serious Eye	No data available				
Damage/Irritation:					
11.4 Respiratory or	No data available				
Skin Sensitisation:					
11.5 Germ Cell	No data available				
Mutagenicity:					
11.6 Carcinogenicity:	No data available				
11.7 Reproductive	No data available				
Toxicity:					
11.8 STOT-Single	No data available				
Exposure:	No. data available				
11.9 STOT-Repeated	No data available				
Exposure: 11.10 Aspiration	No data available				
Hazard:	NO data available				
12. Ecological Informa	ation				
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: 12.6 Other Adverse	No data available				
Effects:	INO Uala avallable				
13. Disposal Consider	ations				
Product disposal:	Dispose in accordance with all applicable local and national				
. Toddot diopoddi.	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:	Enriched Hop Pellets (Type 45 Pellets)	
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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