

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).

A laboration of the	Descention and of the Osmanne			
	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 Contact Details:	 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 Mainburger Str. 15, 93358 St. Johann, Germany Emergency phone: +49 9444 878 0 (office hours) Email: contact@hopfenveredlung.de 			
2. Hazards Identification				
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 <i>Humulus lupulus</i> that have been enriched by physical means. Many different varieties and				

degrees of enrichment.

4. F	irst Aid Measures	
	Description of First	Inhalation: Move to fresh air.
	Aid Methods:	Skin Contact: Brush off excess material and wash skin
		thoroughly with soap and water.
		Eve 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	None known. See Section 2.3.
4.2	Most Important	
	Symptoms and Effects:	
4.0		Nege Income
4.3	Indication of	None known.
	Immediate Medical	
	Attention or	
	Special Treatment:	
	ire-Fighting Measu	
5.1	Extinguishing	Carbon dioxide, dry powder and foam. Keep containers and
	media:	surroundings cool with water spray. Great care should be
	<u> </u>	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
	Firefighters:	breathing apparatus.
6. <i>I</i>	Accidental Release	Measures
6.1	Personal	Wear appropriate protective clothing – see Section 8.
	Protection:	
6.2	Environmental	Do not discharge onto the ground or into watercourses.
	Precautions:	
6.3	Methods for	Normal clean-up procedures as for any agricultural
	Cleaning Up:	commodity.
7. ⊦	landling and Storag	ge
	Precautions for	Avoid generating excessive dust. Avoid excessive contact
	Safe Handling:	with product. Use appropriate protective clothing as indicated
	0	in Section 8. Wash hands after use.
7.2	Conditions for	To guarantee quality avoid heat, moisture and strong odours
	Safe Storage:	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.
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7 3	Specific End Llees	
7.3	Specific End Uses:	The substance is manufactured for use as a food ingredient
7.3	Specific End Uses:	

	accordance with application	able food legislation.
8. Exposure Controls		
8.1 Control	Not applicable.	
Parameters:		
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 Chem	ical Properties	
Appearance:	Pelleted powder; variou	is shades of green
Odour:		oppy, 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:	$450 - 700 \text{ kg.m}^{-3}$	
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 Reac		
10.1 Reactivity:	No reactivity hazards ki	nown
10.2 Chemical	Stable if stored in accord	
Stability:		
10.3 Possibility of	None known	
Hazardous		
Reactions:		
10.4 Conditions to	See Section 7.2	
Avoid:		
10.5 Incompatible	None known	
Materials:		
materials.		

10.6 Hazardous Decomposition Products:	None known	
11. Toxicological Info	mation	
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	No data available	
Corrosion/Irritation:		
11.3 Serious Eye Damage/Irritation:	No data available	
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:		
11.9 STOT-Repeated	No data available	
Exposure:		
11.10 Aspiration	No data available	
Hazard:		
12. Ecological Informa		
12.1 Toxicity:	No data available	
12.2 Persistence and Degradability:	No data available. All-natural product.	
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 and vPvB Assessment:	No data available	
12.6 Other Adverse	No data available	
Effects:		
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	ion		
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 Informa	ation		
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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