🛕 HAAS 🛛 Barth Haas' 🛞

# **Organic Hop Pellets**

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). Certification Body: DE-ÖKO-006

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

1.1 Product Identifier	Hop Pellets		
1.2 Synonyms	Type 90 Pellets, Type 45 Pellets, PEL/PE 90, PEL/PE 45, Kettle Pellets, Hop		
	Pellets, Organic Hop Pellets		
1.3 Relevant Uses	For use as an ingredient in the brewing of beer		
1.4 Supplier	BarthHaas / John I. Haas, Inc.		
1.5 Emergency Contact	BarthHaas		
Details	Freiligrathstraße 7-9		
	90482 Nuremberg, Germany		
	Emergency Phone: +49-9115489-0		
	E-Mail: info@barthhaas.de		
	BarthHaas / John I. Haas, Inc.		
	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: contact@hopfenveredlung.de		





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. May form explosible dust-air mixture if the associated dust is dispersed.			

#### **3. COMPONENTS/INFORMATION ON INGREDIENTS**

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.

#### **4. FIRST AID MEASURES 4.1 Description of First** Aid Methods: Move to fresh air \_ \_ Inhalation Brush off excess material and wash skin thoroughly with soap and water. Skin Contact **Eye Contact** Flood the eye with plenty of water. If any symptoms persist obtain medica -**Oral Ingestion** \_ 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** 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. The formation of dust by high pressure water jet, should be avoided.
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. ACCDIENTAL RELEASE MEASURES

6.1 Personal Protection	Wear appropriate protective clothing - see Section 8. Ensure adequate ventilation and control of dust to avoid forming a dust-air mixture.	
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. Pellets		
Storage	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 / PERSONAL PROTECTION

**8.1 Control Parameters** Not applicable.

8.2 Exposure Controls:

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





## 9. PHYSICAL AND CHEMICAL PROPERTIES a) Physical state Pelleted powder b) Color Various shades of green c) Odor Characteristic, typical hoppy, depends on variety d) Melting point/Freezing Not practical to measure point e) Boiling point Not practical to measure f) Flammability Not practical to measure g) Lower and upper Not practical to measure explosion limit h) Flash point Not practical to measure i) Auto-ignition Not practical to measure temperature j) Decomposition 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

Organic_Hop_Pellets_SDS Rev. 2			HAAS	BarthHa	as' 🛞	& HIPA hops with character
p) Density [kg/m³]	450 - 700					
q) Relative vapor density	Not practical to meas	ıre				
r) Particle characteristics	Not practical to meas	ıre				

## **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	See Section 7.2
10.5 Incompatible Materials	None known
10.6 Hazardous	None known
Decomposition Products	





## **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	Associated dust may be irritating	
11.4 Respiratory or Skin Sensitization	Associated dust may be irritating	
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.