

## Isomerized Hop Pellets Safety Data Sheet

## Note

Isomerized hop pellets are not classified as a dangerous product 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:	Isomerized Hop Pellets		
Synonyms:	Pre-isomerized Hop Pellets, Iso-pellets, Isopellets		
1.2 Relevant Uses	For use as an ingredient in the brewing of beer		
1.3 Supplier:	BARTH-HAAS Group / BARTH-HAAS UK		
1.4 Emergency	Hop Pocket Lane, Paddock Wood, Kent, TN12 6DQ, UK		
Contact Details:	Emergency phone: +44 1892 833 415 (09:00 – 17:30 Mon-		
	Thurs; 09:00 – 16:30 Fri, UK time)		
	Email: enquiries@barthhaas.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 E-mail: 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:	This product is a pelleted form of pre-isomerized hops for use		
	as an ingredient for the brewing of beer - see Section 3. It		
	has not been fully tested. Associated dust may be irritating to		
	mouth, throat and eyes.		
3. Components/Information on Ingredients			

pelleted in presence of small amounts of magnesium oxide (amount dependent on variety). Isomerized pellets are available from many varieties of hops.

Product consists entirely of hop cones of the cultivated hop plant *Humulus lupulus* 



4. F	irst Aid Measures	
	Description of First	Inhalation: Move to fresh air. If symptoms persist obtain
7.1	Aid Methods:	medical attention.
	7 da Modriodo.	Skin Contact: Wash skin thoroughly with soap and water.
		Launder contaminated clothing before re-use.
		Eye Contact: Immediately 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.
	Symptoms and	
	Effects:	
4.3	Indication of	None known.
	Immediate Medical Attention or	
	Special Treatment:	
5 F	Fire-Fighting Measu	res
	Extinguishing	Carbon dioxide, dry powder and foam. Great care should be
	media:	taken using a water jet/spray.
5.2	Special Hazards	None known.
	Arising from	
	Substance:	
5.3	Advice for	Fire fighters should wear self-contained positive pressure
	Firefighters:	breathing apparatus.
	Accidental Release	
6.1	Personal Protection:	Wear appropriate protective clothing – see Section 8.
6.2	Environmental	Do not discharge onto the ground or into watercourses.
0.2	Precautions:	Do not alconarge onto the ground of into watercoardes.
6.3	Methods for	Normal clean-up procedures as for any agricultural
	Cleaning Up:	commodity.
	landling and Storag	
7.1	Precautions for	Avoid generating excessive dust. Avoid excessive contact
	Safe Handling:	with product. Use appropriate protective clothing as indicated in Section 8. Wash bands after use
7 2	Conditions for	in Section 8. Wash hands after use.  Store at 0 - 8 °C (32 - 46 °F). Suitable storage containers are
1.2	Safe Storage:	thick gauge laminated .foil bags, stainless steel and lacquered
	Odic Otorage.	mild steel. To guarantee quality avoid heat, moisture, strong
		odors during storage.
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.



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8. Exposure Controls		
8.1 Control	Not applicable.	
Parameters:		D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8.2 Exposure	Engineering Controls:	Provide adequate ventilation.
Controls:	Eye/Face Protection:	If in danger of generating dust, wear a
	facemask.	
	Hand Protection:	Not required
	Skin Protection:	Not required
		If in danger of generating dust, wear a
_	facemask.	
9. Physical and Chemi		
Appearance:	Solid pellets; various sh	
Odour:	Characteristic, pungent	, 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 <sup>-3</sup>	
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 Reactivity 10.1 Reactivity: 10.2 Chemical Stability: 10.3 Possibility of Hazardous Reactions: 10.4 Conditions to Avoid: 10.5 Incompatible Materials: 10.6 Hazardous Decomposition Products: 11.1 Acute Toxicity: 11.1 Acute Toxicity: 11.2 Skin Corrosion/Irritation: 11.3 Serious Eye Damage/Irritation: 11.4 Respiratory or Skin Sensitisation: 11.5 Germ Cell Mutagenicity: 11.6 Carcinogenicity: 11.7 Reproductive 11.8 STOT-Single Exposure: 11.8 STOT-Single Exposure: 11.8 STOT-Single Exposure: 11.2 Stability: 11.8 STOT-Single Exposure: 11.2 Stability: 11.3 Stability: 11.4 Respiratory or No data available
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Exposure:
11.9 STOT-Repeated No data available
Exposure:
11.10 Aspiration No data available
Hazard:
12. Ecological Information
12.1 Toxicity: No data available
12.2 Persistence and No data available
Degradability:
12.3 Bioaccumulative No data available
Potential
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



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:  N/A  Packing group:  Non-hazardous for transport  Marine pollutant:  No data available  15. Regulatory Information  15.1 Safety, Health and Environmental	40 Disposal Considerations					
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15.1 Safety, Health and No data available	Marine pollutant:	No data available				
and	15. Regulatory Information					
	15.1 Safety, Health	No data available				
Environmental	and					
	Environmental					
Regulations:	Regulations:					
15.2 Chemical Safety No data available	15.2 Chemical Safety	No data available				
Assessment:	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.

Date of issue: 12. February 2016