

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 / 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 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/Inform	nation on Ingredients	

Product consists entirely of hop cones of the cultivated hop plant *Humulus Iupulus* pelleted in presence of small amounts of magnesium oxide (amount dependent on

variety). Isomerized pellets are available from many varieties of hops.



4. First Aid Measures	
4.1 Description of First Aid Methods:	Inhalation: Move to fresh air. If symptoms persist obtain medical attention. 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 Symptoms and Effects:	None known.
4.3 Indication of Immediate Medica Attention or Special Treatment	
5. Fire-Fighting Meas	ures
5.1 Extinguishing media:	Carbon dioxide, dry powder and foam. Great care should be taken using a water jet/spray.
5.2 Special Hazards Arising from Substance:	None known.
5.3 Advice for Firefighters:	Fire fighters should wear self-contained positive pressure breathing apparatus.
6. 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. Handling and Stor	age
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:	Store at 0 - 8 °C (32 - 46 °F). Suitable storage containers are thick gauge laminated .foil bags, stainless steel and lacquered 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.



8. Exposure Controls	/ Personal Protection	
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 a
	facemask.	
	Hand Protection:	Not required
	Skin Protection:	Not required
	1	If in danger of generating dust, wear a
	facemask.	
9. Physical and Chem		
Appearance:	Solid pellets; various sh	nades of green
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 ⁻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	



40 Ctability and Dage	di dan
10. Stability and Reac	
10.1 Reactivity:	No reactivity hazards known
10.2 Chemical	Stable if stored in accordance with 7.2
Stability:	
10.3 Possibility of	None known
Hazardous	
Reactions:	
10.4 Conditions to	See Section 7.2
Avoid:	
10.5 Incompatible	None known
Materials:	
10.6 Hazardous	None known
Decomposition	
Products:	
11. Toxicological Info	rmation
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. No TLVs
	established.
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:	The data available
11.8 STOT-Single	No data available
Exposure:	Tro data available
11.9 STOT-Repeated	No data available
Exposure:	To data available
11.10 Aspiration	No data available
Hazard:	Tio data avallable
12. Ecological Informa	ation
12.1 Toxicity:	No data available
12.1 Poxicity.	No data available
Degradability:	TVO GALA AVAIIADIE
12.3 Bioaccumulative	No data available
	No data available
Potential	No data available
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:	



13. Disposal Considerations			
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	tion		
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 Regulations:	No data available		
15.2 Chemical Safety Assessment:	No data available		

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: 13 January 2014