



🛕 HAAS 🛛 Barth Haas' 🛞



Safety Data Sheet

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 SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier	Isomerized Hop Pellets
1.2 Synonyms	Pre-Isomerized hop Pellets, Iso-pellets, Isopellets
1.3 Relevant Uses	For use as an ingredient in brewing of beer.
1.4 Supplier	BarthHaas / BarthHaas UK Ltd.
1.5 Emergency Contact Details	BarthHaas UK Ltd. 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: enquiries@barthhaas.co.uk 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	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

Product consists entirely of hop cones of the cultivated hop plant *Humulus lupulus* 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 MEA	SURES
4.1 Description of First Aid Methods: - Inhalation - Skin Contact - Eye Contact - Oral Ingestion	 Move to fresh air. If symptoms persist obtain medical attention. Wash skin thoroughly with soap and water. Launder contaminated clothing before re-use. Immediately flood the eye with plenty of water. If any symptoms persist obtain medical 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 symptoms and Effects	None known
4.3 Indications of Immediate Medical	None known





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.
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.	
6.2 Environmental Precautions	Do not discharge large amounts 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 Handling	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 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 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

Protection

Not applicable.

8.2 Exposure Controls:		
- Engineering -	-	Provide adequate ventilation
Controls		If in danger of generating dust, wear facemask
- Eye/Face	-	Not required
Protection	-	Not required.
- Hand Protection		-
- Skin Protection	-	If in danger of generating dust, wear a facemask
- Respiratory		

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Isopellets_SDS Rev. 8		HAAS	BarthHaas	B PHPA Lups with character
k) pH	Not practical to measu	ıre		
l) Kinematic viscosity	Not practical to measu	ure		
m) Solubility	Insoluble			
n) Partition coefficient n- octanol/water (log value)	Not practical to measu	ıre		
o) Vapor pressure	Not practical to measu	ure		
p) Density [kg/m³]	450- 700			
q) Relative vapor density	Not practical to measu	ire		
r) Particle characteristics	Not practical to measu	ure		

10. STABILITY AND REACTIVITY		
10.1 Reactivity	No reactivity hazards known.	
10.2 Chemical Stability	Stable if stored according to Section 7.2	
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 Decomposition Products	None known	



11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity	No data available. Hops and hop extracts are generally recognized as safe (GRAS) for 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	No data available
11.4 Respiratory or Skin Sensitization	No data available
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
12.3 Bioaccumulative Potential	No data available
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	N/A
14.3 Transport Hazard Class	Non-hazardous for transport
14.4 Packing Group	Non-hazardous for transport
14.5 Marine pollutant	Not data available

15. REGULATORY INFORMATION

15.1 Safety, Health, andNot data availableEnvironmentalRegulations

15.2 Chemical SafetyNot data availableAssessments

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 ist use.