

# Material Safety Data Sheet

<b>1. Identification of the Preparation and the Manufacturers</b>	
Product name:	<b>XanoHop A</b>
Intended Use:	Food or nutraceutical products
Supplier:	<b>BetaTec<sup>®</sup> Hop Products</b> Address: 5185 MacArthur Blvd., N. W., Suite 300 Washington, D. C. 20016, USA Emergency phone: +1 202 777 4800 (office hours) Email: <a href="mailto:info@johnihaas.com">info@johnihaas.com</a>
<b>2. Hazards Identification</b>	
Main hazards:	None known
Oral ingestion:	A large dose may cause irritation of the mouth, throat and digestive tract.
Eye contact:	May cause eye irritation
Skin contact:	Prolonged contact may cause irritation in some individuals
Inhalation	Dust may be irritating
<b>3. Composition/Information on Ingredients</b>	
Components	Xanthohumol, extracted from hops
<b>4. First Aid Measures</b>	
Inhalation:	Remove from source of dust.
Skin contact:	Wash contact area with soap and water. Launder clothing before reuse.
Eye contact:	Irrigate thoroughly with water and seek medical attention if irritation persists.
Oral ingestion:	Drink large amounts of milk or water to dilute.
<b>5. Fire-Fighting Measures</b>	
Extinguishing media:	Dry powder, foam, water, or carbon dioxide
Special fire fighting procedures:	None known
Unusual fire and explosion:	None known
<b>6. Accidental Release Measures</b>	
Personal protection:	Wear appropriate protective clothing
Environmental Precautions:	Prevent material from entering drains or water courses
Methods for cleaning up:	Sweep up with a broom or use a vacuum cleaner and place into container for later disposal. Flush area with hot water to remove residues.

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**BetaTec Hop Products, 5185 MacArthur Blvd, N.W., Suite 300, Washington DC, USA 20016**  
**Phone: +1 (202) 777-4800, Fax: +1 (202) 777-4895**

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<b>7. Handling and Storage</b>	
Handling:	Avoid excessive contact with product
Storage:	Long term storage at 4 °C (39 °F) in tightly sealed containers. May be shipped at ambient temperatures.
<b>8. Exposure Controls/Personal Protection</b>	
Respirator:	Dust mask recommended when handling practices generate airborne dust.
Hand protection:	PVC or rubber gloves
Eye protection:	Safety goggles recommended during handling
Skin protection:	Normal working clothes. Launder contaminated clothing before reuse.
<b>9. Physical and Chemical Properties</b>	
Form:	Solid, powder
Color:	Yellow to light brown
Odor:	Characteristic, typical hoppy, resinous
Flashpoint:	Not applicable
Flammability:	Non-flammable
Explosive properties:	None known
Oxidizing properties:	None known
Vapor pressure:	Not applicable
Solubility:	Soluble in organic solvents, nearly insoluble in water
<b>10. Stability and Reactivity</b>	
Conditions to avoid	No hazardous conditions known
Materials to avoid:	None known
Hazardous decomposition products:	None known
<b>11. Toxicology Information</b>	
To the best of our knowledge, the substance has not been fully assessed so its toxicological information is not available.	
<b>12. Ecological Information</b>	
Ecotoxicity:	Not known
Mobility:	Product will not readily dissolve in water
Persistence and degradability:	Not known
Bioaccumulation potential:	Not known
Other adverse effects:	Not known

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<b>13. Disposal Considerations</b>	
Product disposal:	Dispose of in accordance with all applicable local and national regulations
Container disposal:	Labels should not be removed from containers until they have been cleaned. Packaging material (wooden pallets, cartons, emptied tins, glasses and one-way barrels) to be recycled..
<b>14. Transport Information</b>	
UN-No:	Not listed
Class:	Not listed
Shipping name:	N/A
Packing Group:	Not listed
Marine pollutant:	Not known
<b>15. Regulatory Information</b>	
This product is not classified in Annex 1 Directive 67/548/EEC on the classification, packaging and labeling of dangerous substances. We are unaware of any regulations which regard this product as dangerous.	
<b>16. Other Information</b>	
The information in this safety sheet is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information is based on our present knowledge and should be used only as a supplement to information already in your possession concerning this product. The determination of whether and under what conditions 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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