

SAFETY DATA SHEET:

acc. to OSHA HCS, Regulation (EC) 1907/2006, Regulation (EC) 1272/2008:

Product Code: 46-344
HOPFENATIC™

SDS Version: 9.0
Revision Date: 09/26/2016

SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY

Product Identifier:	HOPFENATIC™
Product Code:	46-344
CAS Number:	
Intended Use:	For the manufacture of foods.
Details of the supplier of the safety data sheet:	
Manufacturer/Supplier:	Kalsec® 3713 West Main Street Kalamazoo, Michigan 49006 USA
Emergency Contact:	1-352-323-3500 COLLECT (IN U.S. & CANADA ONLY) 1-800-535-5053
Fax:	(269) 382-3060

SECTION 2 - HAZARDS IDENTIFICATION

<p>Classification of the substance or mixture:</p> <p>To the best of our knowledge, this product has no known physical, health or environmental hazards that require communication in accordance with United States OSHA Hazard Communication Standard (HCS-2012, 29 CFR 1910.1200), EU Regulation 1272/2008, Directive 1999/45/EC or the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS).</p> <p>Label Elements:None</p> <p>Signal Word</p> <table border="1"> <thead> <tr> <th>Precautionary Code</th> <th>Precautionary Code Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Precautionary Code	Precautionary Code Description		
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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS	wt %	CLASSIFICATION
Please see section 16 for classification details.			

SECTION 4 - FIRST AID MEASURES

General Advice:	If medical advice is needed, have product container or label at hand. IF exposed or concerned: Get medical advice/attention if you feel unwell. Wash with plenty of soap and water.
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SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media:	In case of fire: Use CO2 or dry powder as the extinguishing media. Fight larger fires with foam. Use water only for cooling.
Protective equipment:	See Section 8. According to the size of the fire, it may be necessary to wear a protective suit, eye protection, gloves and/or self-contained breathing apparatus.

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SECTION 6 - ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Eliminate all ignition sources if safe to do so.
Methods and materials for containing and cleaning up:	Clean up with suitable absorbent material (sand, vermiculite, diatomite, saw dust etc.).

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Open and handle receptacle with care.
Conditions for safe storage:	No special conditions required for safe storage. See technical data sheet for recommended storage conditions.

SECTION 8 - EXPOSURE CONTROLS

<u>Exposure Limits</u>	There are no substances with workplace exposure limits.
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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	YELLOW, CLEAR TO SLIGHTLY HAZY
Odor:	FLORAL, FRUITY HOP LIKE
Odor Threshold:	Not determined
pH:	Not determined
Melting / Freezing Point:	Not determined
Initial Boiling Point & Range:	Not determined
Flash Point:	94°C
Evaporation Rate:	Not determined
Flammability:	Not determined
Upper/Lower	Not determined
Flammability Limits:	
Vapour Pressure:	Not determined
Vapour Density:	Not determined
Relative Density:	Not determined
Solubility:	Not determined
Partial Coefficient (n-octanol/water):	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Not determined
Explosive Properties:	Not determined
Oxidising Properties:	Not determined

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	No known reactions
Chemical Stability:	Under normal ambient storage this product is stable
Possibility of Hazardous Reactions:	No dangerous reactions known
Conditions to Avoid:	Extremes of temperature

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Incompatible Materials:	No known
Hazardous Decomposition Products:	No dangerous decomposition products known

SECTION 11 - TOXICOLOGY INFORMATION

Acute Toxicity (Oral):	Not Classified
Acute Toxicity (Dermal):	Not Classified
Acute Toxicity (Inhalation):	Not Classified
Skin Corrosion / Irritation:	Not Classified
Serious Eye Damage / Irritation:	Not Classified
Skin Sensitization:	Not Classified
Respiratory Sensitization:	Not Classified
Germ Cell Mutagenicity:	Not Classified
Carcinogenicity:	Not Classified
Specific Organ Toxicity (RE):	Not Classified
Specific Organ Toxicity (SE):	Not Classified
Aspiration Hazard:	Not Classified

SECTION 12 - ECOLOGICAL INFORMATION

Acute (short-term) toxicity:	Not Classified
Chronic (long-term) toxicity:	Not Classified
Persistence and degradability:	No data
Bioaccumulative potential:	No data
Mobility in soil:	No data
Results of PBT and vPvB assessment:	No data
Other adverse effects:	No data

SECTION 13 - DISPOSAL CONSIDERATIONS

Product:	Dispose of contents/container in accordance with local, regional , national or international regulations.
Contaminated packaging:	Dispose of contents/container in accordance with local, regional , national or international regulations.

SECTION 14 - TRANSPORT INFORMATION

<u>UN Number</u>	ADR/RID: Not Regulated
	IMDG: Not Regulated
	IATA: Not Regulated
<u>Proper Shipping Name</u>	ADR/RID: None
	IMDG: None
	IATA: None
<u>Hazard Class</u>	ADR/RID: None
	IMDG: None
	IATA: None
<u>Packing Group</u>	

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IATA:	N/A
Environmental Hazards:	No Known
Special precautions for user:	Refer to Section 7

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific to mixture:
This safety datasheet has been prepared in accordance with Regulation (EC) No. 1907/2006.

Chemical safety assessment:
No chemical safety assessment has been carried out.

SECTION 16 - OTHER INFORMATION

Further Information
The above information is provided to the best of our knowledge and represents the current state of that knowledge. However there is no guarantee that the information is all-inclusive and it is intended to be used as a guide only. It is applicable only to the appropriate safety precautions of the product and does not represent any guarantee of the properties of the product