

SAFETY DATA SHEET:

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

Product Code: 46-343
BITTER BLASTER™

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

SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY

| | |
|---|---|
| Product Identifier: | BITTER BLASTER™ |
| Product Code: | 46-343 |
| 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 | | |
|---|--------------------------------|--------------------------------|--|--|
| Precautionary Code | Precautionary Code Description | | | |
| | | | | |

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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

SECTION 4 - FIRST AID MEASURES

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| 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

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| 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

| | |
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| 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

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|--------------------------------|---|
| 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

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

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| Appearance: | Clear, dark orange solution, no solids |
| Odor: | Hop - like, lacquer |
| 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

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|----------------------------------|----------------|
| 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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| | |
|-------------------------------|--------------------|
| ADR/RID: | N/A |
| IMDG: | N/A |
| 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