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## Material Safety Data Sheet

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Product Name: Whirlfloc G  
Product Code: 5H01052  
Date Printed: February 19, 2009

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name	Whirlfloc G
Product code	5H01052
Description	Powdered preparation.
Use	Processing aid in the beverage industry
Supplier	Kerry Bio-Science Kilnagleary, Carrigaline, Co. Cork. IRELAND Tel. 353 21 4376400 Fax 353 21 4376480

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature / Synonyms	Carrageenan
CAS nos	9000-07-01 Carrageenan
EINECS nos	232-536-8 Carrageenan
Ingredient Statement	Carrageenan E407a

### 3. HAZARDS IDENTIFICATION

Health hazards:	Not considered harmful
Physio-chemical hazards:	None identified
Environmental hazards:	None identified

### 04. FIRST AID MEASURES

Inhalation:	Remove from exposure. If irritation or allergic response develops, consult a doctor.
Skin contact:	Wash skin with plenty of cold water.
Eye contact:	Irrigate eyes with cold water for at least 20 mins. Obtain medical advice if irritation occurs.
Ingestion:	Rinse mouth thoroughly with water and drink water afterwards. Consult a doctor.

### 5. FIRE FIGHTING MEASURES

Suitable fire fighting extinguishing media :	CO <sub>2</sub> , foam, dry chemical, water.
Special measures:	For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, such as self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Spillages: Spills will become slippery if wetted. Dispose of in compliance with local authority regulations.

### 7. HANDLING AND STORAGE.

It is important to prevent direct contact with skin. Operations which may create spillage and splashing must be avoided.

Store in a cool and dry place, protected from exposure to moisture.

Shelflife: 24 months from date of manufacture

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection is necessary in circumstances where there is accidental or uncontained release of product.

Respiratory protection:	Respirator approved for solid and liquid particulates including dusts and mists e.g. 3M 8810 mask or respirator with P3 filter or equivalents
Hand protection:	Impermeable gloves
Eye protection:	Protective glasses

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Colour/Physical state:	Pale brown granules
Autoflammability:	Not applicable
Bulk Density:	(20 <sup>0</sup> C) 0.8g/cc+/- 0.2g
pH	9.5 - 10.5
Melting point:	Not available
Boiling point:	Not applicable
Vapour pressure	Not applicable
Flashpoint:	Not applicable

Solubility: Carrageenan in **Whirlfloc** products is insoluble in cold water. It will dissolve in water at 70<sup>0</sup>C or higher. This may result in strong gel formation on cooling.

### 10. STABILITY AND REACTIVITY

This product is stable under normal conditions of use. Store in a cool, dry place. Avoid prolonged exposure to temperatures exceeding 20<sup>0</sup>C.

Material to avoid:	Avoid contact with acids, oxidising agents.
Hazardous combustion or decomposition products:	Normal products of combustion of carbohydrates including carbon monoxide, carbon dioxide, smoke

### 11. TOXICOLOGICAL INFORMATION

Carrageenan has been evaluated and approved as a food additive, e.g. JECFA and SCF.

### 12. ECOLOGICAL INFORMATION

This product type is believed not to be dangerous to the environment. Carrageenan is expected to be readily biodegradable.

### 13. DISPOSAL INFORMATION

Product and contaminated packaging must be disposed of in accordance with local authority regulations.

#### Liquid products:

Surplus liquid spills may be disposed of to municipal / waste water treatment plants as it is biodegradable, or in accordance with local authority regulations.

#### Liquid product packaging:

Containers should be drained of excess residue and rinsed with water. The containers may then be recycled / reused or disposed of as in accordance with local authority regulations.

#### Powder products:

Powder may be disposed of to landfill / incineration as in accordance with local authority regulations.

#### Powder product packaging:

Care should be taken to ensure that the packaging is free from any residues before it can be sent for recycling/reuse or further disposal in accordance with local authority regulations.

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**14. TRANSPORT INFORMATION**

This product is not a dangerous good according to international regulations for transport.

UN No.:	Not assigned
Hazard label no:	Not assigned
IMDG code:	Not classified
ICAO/IATA:	Not classified
RID code:	Not classified
ADR class:	Not classified
CEPIC code	Not assigned
Kemler code	Not assigned

**15. REGULATORY INFORMATION**

Label hazard and safety information: not applicable

**16. OTHER INFORMATION**

**Supersedes edition of : 2/ 09/ 02 Reason for alteration : New company name and rearranging MSDS data so that format complies with EU Directive 2001/ 58/ EC**

The information contained in this safety data sheet, as of the issue date, is believed to be true and correct.

However, the accuracy or completeness of this information and any recommendation or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications , for which please refer to our technical data sheet.

Whirlfloc G conforms to MAFF(UK) report on the Review of Additives and Processing Aids used in the Production of Beer (FAC/REP/26).

MSDS format conforms to EC directive 2001/58/EC.

Date of preparation 18/06/04

Issue no. 11

Kerry Food Ingredients (Cork) Ltd. Registered in Ireland No 290428

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