CP Kelco
A HUBER COMPANY

# Safety Data Sheet

**According to (EC) No 1907/2006 (REACH)**
**(EU) No 453/2010**

**Revision Date:** 27/Feb/2011 **Revision Number:** 1.1

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

| | |
|---|---|
| **Product Name:** | GENU® pectin 150 USA-SAG type BA-KING |
| **Chemical Name** | Pectin standardized with Sucrose |
| **Product Use** | stabilizer and thickener |
| **Specific End Uses** | Food, beverages |
| **Company** | CP Kelco France<br>123 rue Jules Guesde<br>92300 Levallois-Perret<br>France<br>Tel: +33 1 49 03 78 00<br>Fax: +33 1 49 03 78 29 |
| **Emergency Telephone Number** | CHEMTREC: +1 800 424 9300 or International +1 703 527 3887<br>EU Phone: +33 1 49 03 78 00 (France) |
| **Internet** | www.cpkelco.com |
| **Email** | cheryl.vandyne@cpkelco.com (PST) |

## 2. HAZARDS IDENTIFICATION

| | |
|---|---|
| **CLASSIFICATION:** | EC 1272/2008: Not Classified<br>EC 67/548: Not Classified |
| **Label Element(s):** | None |
| **Signal Word(s)** | None |

Pectin
CAS: 9000-69-5

Wet material on walking surfaces will be extremely slippery.
May produce an allergic reaction
Avoid dust formation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT(S) | EC / REACH | EU CLP Classification |
|---|---|---|
| Sucrose<br>CAS: 57-50-1 | 200-334-9<br>- | Not classified |
| Pectin<br>CAS: 9000-69-5 | 232-553-0<br>Exempt | Not classified |

**Sucrose - CAS: 57-50-1**

Regulation (EC) 1907/2006: REACH
Exempt. Food ingredient

**Pectin - CAS: 9000-69-5**

Regulation (EC) 1907/2006: REACH
Exempt as a naturally occurring polymer.

# 4. FIRST AID MEASURES

| | |
|---|---|
| **General Advice:** | Remove material from eyes, skin and clothing.<br>In case of doubt or when symptoms persist, seek medical attention.<br>Wash heavily contaminated clothing before reuse. |
| **Eye contact** | Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes. If eye irritation persists, seek medical attention. |
| **Skin contact** | Wash off with soap and plenty of water. |
| **Ingestion** | No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. |
| **Inhalation** | Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. |

# 5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| **General Advice** | Treat as "Class A" fire. Product will burn when in contact with a flame. Self extinguishes when ignition source is removed. Tends to smoulder. |
| **Suitable Extinguishing Media** | Water<br>Dry chemical<br>Carbon dioxide (CO2) |
| **Unsuitable Extinguishing Media** | None |
| **Hazardous Combustion Products** | Carbon dioxide<br>Carbon monoxide |
| **Dust Explosion Hazard** | Can contain sufficient fines to cause a combustible dust explosion. Do not breathe smoke, gases or vapors generated. |
| **Special Protective Equipment for Firefighters** | In the event of fire, wear self-contained breathing apparatus. |

# 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Wet material on walking surfaces will be extremely slippery.
Avoid dust formation.
In case of exposure to high levels of airborne dust, wear a personal respirator in compliance with national legislation.

**Environmental Precautions**

Not expected to cause an environmental hazard a a result of its intended use, disposal, or incineration.

**Methods for Cleaning up**

Use vacuum equipment designed specifically for combustible dust.
Take precautionary measures against static discharges.
The use of water wash down is not recommended unless the spilled material is already wet.
Disposal information - Refer to Section 13

**Other Information**

Personal protection equipment (PPE) - Refer to Section 8.
Disposal - Refer to Section 13.

# 7. HANDLING AND STORAGE

**Handling**

Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid conditions that generate airborne dust in handling, transfer and clean up.
Product may form combustible dust-air mixtures.
Keep away from heat, flame sparks and other ignition sources.
Avoid emptying package in or near flammable vapors. Static charges may cause flash fire.
Remove material from eyes, skin and clothing.

**Storage**

Store in a roofed and well ventilated area in the unopened original package.

**Specific End Uses**

Food, beverages

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Controls**

**Engineering Controls**
Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below).
The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

**Personal Protective Equipment**

**Eye Protection**
Protect eyes from exposure.
EU: P2 half masks
Have eye flushing equipment available.

**Skin and Body Protection**
Wear appropriate protective clothing.
Wash thoroughly after handling.
Launder contaminated clothing and clean protective equipment before reuse.

**Hand Protection**
Gloves are recommended if extended exposure is anticipated.
EN 420

**Respiratory Protection**
If handling generates dust levels which cause irritation, or results in personal exposure exceeding the Occupational Exposure Standard (OES) of 10 mg M-3 (8 hr TWA reference period) for total inhalable dust, then suitable approved dust respirator should be used.
Personal exposure to dust should ideally be controlled to the lowest level possible below the OES.
If handling generates dust levels which cause irritation, or results in personal exposure exceeding the Occupational Exposure Standard (OES) of 10 mg M-3 (8 hr TWA reference period) for total inhalable dust, then suitable approved dust respirator should be used.
Personal exposure to dust should ideally be controlled to the lowest level possible below the OES.
EN 149

**Hygiene Measures**
Handle in accordance with good industrial hygiene and safety practice.

**Control Parameters**

**Exposure Limit Values:**

**Sucrose - CAS: 57-50-1**

**NIOSH - TWA**
5 mg/m$^3$ TWA (respirable dust)
10 mg/m$^3$ TWA (total dust)
**ACGIH - TLV-TWA 8-hour**
10 mg/m$^3$
**Belgium - OELs - TWA**
10 mg/m$^3$
**France - OEL - TWA (VME)**
10 mg/m$^3$
**Ireland - OEL - STEL**
20 mg/m$^3$
**Ireland - OEL - TWA**
10 mg/m$^3$
**Slovak Republic - OEL - TWA**
6 mg/m$^3$
**United Kingdom - WEL - TWA**
10 mg/m$^3$

**Pectin - CAS: 9000-69-5**

**Exposure limits**
Not established.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance** | Cream to light tan |
| **Physical State** | Powder |
| **Odor** | Odorless |
| **Odor Threshold** | No information available |
| **pH** | 3.2-3.6(1% solution) |
| **Melting Point/range** | Not applicable |
| **Boiling Point** | Not applicable |
| **Freeze Point** | Not applicable |
| **Flash Point** | Not applicable |
| **Evaporation Rate** | Not applicable |
| **Flammability** | |
| **Vapor Pressure:** | Not applicable |
| **Vapor Density** | Not applicable |
| **Water Solubility** | Soluble<br>Forms viscous solutions |
| **Autoignition Temperature** | Not applicable |

**NOTE:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

# 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | None |
| **Stability** | Stable under recommended storage conditions. |
| **Possibility of Hazardous Reactions** | Hazardous polymerization will not occur. |
| **Conditions to Avoid** | Avoid dust formation.<br>Heat, flames ignition sources and incompatibles. |
| **Materials to avoid (Incompatible Materials)** | Strong oxidizing agents |
| **Hazardous Decomposition Products** | Thermal decomposition products:<br>Carbon monoxide<br>Carbon dioxide (CO2) |

# 11. TOXICOLOGICAL INFORMATION

**Toxicological Data Sources** Data from laboratory studies conducted by CP Kelco and/or from the scientific literature on components are summarized below

**Sucrose - CAS: 57-50-1**

| | |
|---|---|
| LD50 Oral | 29700 mg/kg (rat) |

**Pectin - CAS: 9000-69-5**

| | |
|---|---|
| Chronic Effects | 28 day studies do not show any adverse effects |
| Carcinogenicity | Not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC. |
| Reported Human Effects | Reported to cause respiratory sensitization in susceptible individuals after prolonged use. Due to the physical nature of this material, may cause eye, skin and respiratory irritation. Oral ingestion of large amounts reported to cause change in cholesterol levels in some human subjects. |
| Reported Animal Effects | No adverse effects from dietary feeding of 5% in total diet of rats. |
| Mutagenicity/Genotoxicity | Not a mutagen in IN VITRO tests |
| Eyes | Dry powder may cause foreign body irritation in some individuals. |
| Skin | Prolonged contact with the dry powder may cause drying or chapping. |
| Inhalation | Reported to cause respiratory sensitization in susceptible individuals after prolonged use.<br>Hygroscopic properties of the gum can form a paste or gel in the airway.<br>Inhalation of dust may cause respiratory tract irritation.<br>Excessive inhalation of dust may cause coughing and sneezing. |
| Ingestion | Not toxic if swallowed (less than a mouthful) based on available information.<br>Oral ingestion of large amounts reported to cause change in cholesterol levels in some human subjects. |

# 12. ECOLOGICAL INFORMATION

| | |
|---|---|
| **Aquatic toxicity** | This product is not expected to pose an ecological hazard as a result of its intended use. |
| **Ecotoxicity** | Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. |
| **Persistence / Degradability** | This product is biodegradable. |
| **Bioaccumulative Potential** | Inherently biodegradable. |
| **Mobility** | Soluble |
| **Potential environmental effects** | Contains no substances known to be hazardous to the environment |
| **Other Adverse Effects** | None known. |

**Pectin - CAS: 9000-69-5**

96-Hour LC50 Rainbow trout: 300 mg/L.

# 13. DISPOSAL CONSIDERATIONS

**DISPOSAL CONSIDERATIONS:** Dispose in accordance with local, state and national regulations.

**Pectin - CAS: 9000-69-5**

**European Waste Catalogue (EWC):**
160306

# 14. TRANSPORT INFORMATION

| | |
|---|---|
| **UN-No** | None. |
| **Proper Shipping Name** | Refer to Sections 1 and 3 for product name and chemical name(s) |
| **IMO / IMDG** | Not hazardous |
| **ICAO / IATA** | Not hazardous |
| **RID/ADR** | Not a dangerous substance. |
| **D.O.T. Hazard Classification** | Non-hazardous material. |
| **General Information** | The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation. |
| **Other information** | Environmental hazards: None known |
| | Special precautions for user: Refer to Sections 2, 7, 8, 9, 10 |

# 15. REGULATORY INFORMATION

Health Safety and Environmental regulations / legislation for the substance or mixture

Component(s) of the product are on the following Inventory lists:

| COMPONENT(S) | EC / REACH | Australia (AICS) | Canada | China (IECSC) | Japan | Korea (KECL) | New Zealand (NZIoC) | Philippines (PICCS) | USA (TSCA) | Taiwan (ECN) |
|---|---|---|---|---|---|---|---|---|---|---|
| Sucrose - CAS: 57-50-1 | 200-334-9 - | Present | Present (DSL) | Present | 8-(4)-345 (ISHL) | KE-17258 | Present | Present | Present | - |
| Pectin - CAS: 9000-69-5 | 232-553-0 Exempt | Present | Present (DSL) | Present | (9)-1754 (ENCS) | KE-27842 | Present | Present | Present | Nominated |

Legend
PRESENT : Listed
- : Not Listed
Exempt
Present
Nominated

Sucrose - CAS: 57-50-1

Regulation (EC) 1907/2006: REACH
Exempt. Food ingredient

Pectin - CAS: 9000-69-5

Regulation (EC) 1907/2006: REACH
Exempt as a naturally occurring polymer.

**Regulatory and Compendia**
Pectin standardized with sucrose (E440):
Food Chemicals Codex;
FAO/JECFA specifications;
EU directive
1829/2003/EC
Japan's Specifications and Standards for Food Additives

# 16. OTHER INFORMATION

**Prepared by**

Cheryl A. Van Dyne
Global Senior Manager
Regulatory Management Systems
email: cheryl.vandyne@cpkelco.com
phone: 1-619-595-5027
fax: 1-619-595-5036

**Acronym / Abbreviation**

ACRONYMS:
INTERNATIONAL:
ADR: International Carriage of Dangerous Goods by Road
BOD: Biochemical Oxygen Demand
CLP: Classification, Labeling and Packaging
COD: Chemical Oxygen Demand
D.O.T.: U.S. Department of Transportation
ICAO International Civil Aviation Organization
IATA: International Air Transport Association (IATA)
IMO::International Maritime Organization.
MDG::International Maritime Dangerous Goods
OES: Occupational Exposure Standard
OR: EU REACH Only Representative
PPE: Personal protection equipment
RID: International Carriage by Rail
TLV-STEL: Threshold Limit Values - Short Term Exposure Limits
TWA: Time Weighted Averages

North America:
CERCLA RQ: US EPAComprehensive Environmental, Response, and Liability Act Reportable Quantity
CERCLA: US EPA Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CONEG: Conference of North Eastern Governors
NIOSH/MSHA - National Institute for Occupational Safety and Health/Mine Safety and Health Administration
SARA: Superfund Amendments and Reauthorization Act (US EPA)
TDG: Canada Transport of Dangerous Goods
WHMIS: Canada's Workplace Hazardous Materials Information System

**Training Advice**

Personnel handling the substance(s) named in this Safety Data Sheet should be skilled and trained in areas associated with the key points named herein.

Personnel should have training and access to appropriate PPE for handling this product.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and suffcient for the product's intended purpose.

If additional information is required, please contact the supplier or an expert.

**Sources of key data**

Literature data and/or investigative reports are available through the manufacturer.

**Reason for version**

Regulation (EC) 1907/2006: REACH
(EU) No 453/2010

**Disclaimer:** The information contained in this Safety Data Sheet to the best of CP Kelco's knowledge and belief as of the date indicated is believed to be accurate and reliable. However, no representation, warranty or guarantee is implied or expressed regarding the accuracy, reliability or completeness of this information or the use of the product. Nothing contained herein should be construed as a recommendation to use this product in conflict with National or local regulations or existing patents covering any material or its use. In case of dispute, the English text governs.

**END OF SAFETY DATA SHEET**