

**Safety data sheet**  
according to 1907/2006/EC, Article 31



**Protea  
Chemicals**

A member of the Omnia Group  
"more than just a chemical supplier"

Printing date 28.09.2015

Version number 1

Revision: 28.09.2015

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** WHEY POWDER
- **Article number:** PP0328
- **EC number:**  
293-803-2
- **Relevant identified uses of the substance or mixture and uses advised against** *Food stuff*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Protea Chemicals Wadeville  
1 Berrange Road  
Wadeville, Germiston  
Tel: 011-821 3300
  
- Protea Chemicals PE  
127 Grahamstown Road  
Deal Party, Port Elizabeth  
Tel: 041-403 1000
  
- Protea Chemicals CT  
54 Killarney Avenue  
Killarney Gardens, Milnerton, Cape Town  
Tel: 021-550 8100
  
- Protea Chemicals KZN  
150 Quality Street,  
Jacobs, Durban  
Tel: 031-468 5424
- **Further information obtainable from:** *Protea Chemicals*
- **Emergency telephone number:**  
08610 OMNIA or  
08610 66642

## 2 Hazards identification

- **Classification of the substance or mixture**



STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**
- **GHS label elements**  
*The substance is classified and labelled according to the Globally Harmonised System (GHS).*
- **Hazard pictograms**



GHS07

- **Signal word** *Warning*
- **Hazard statements**  
*May cause respiratory irritation.*
- **Precautionary statements**  
*Avoid breathing dust/fume/gas/mist/vapours/spray.*

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- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.*
- Store locked up.*
- Store in a well-ventilated place. Keep container tightly closed.*
- Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterisation: Substances**
- **CAS No. Description**  
WHEY POWDER
- **Identification number(s)** Not applicable
- **EC number:** 293-803-2

### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash off with soap and plenty of water. Wash contaminated clothing before re-use.
- **After eye contact:**  
Rinse opened eye for several minutes under running water for 15 minutes. Get medical attention if irritation persists.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions. Water spray jet, foam. Dry fire-extinguishing substance.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Use breathing apparatus with independent air supply (Isolated)
- **Additional information** Product may become a flammable dust when finely divided and suspended in air.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective gear. Do not inhale the material or its combustion products. Go against the wind and keep out of low areas. Evacuate personnel to safe area.
- **Environmental precautions:**  
Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.
- **Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Sweep up and /or flush area with water. Avoid production of dust.

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- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Precautions for safe handling**  
No special precautions are necessary if used correctly. Avoid contact with skin, eyes and clothing.
- **Information about fire - and explosion protection:**  
Put on appropriate personal protective equipment. Keep away from open flames, shut of the production of sources of ignition. Eelectricity: static electricity, electricity sparks, heat. Do not breathe vapor or mist. No smoking.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe the rules usually applicable when handling chemicals.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed in a dry well-ventilated place.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:**  
Ensure eyewash stations and safety showers are close to the workstation location.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
Avoid eye contact with this material. As a minimum safety glasses with side shields should be worn. If potential for dust exposure exists, dust resistant chemical safety goggles should be worn additionally.

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## 9 Physical and chemical properties

|   |   |
|---|---|
| · <b>Information on basic physical and chemical properties</b>    |   |
| · <b>General Information</b>                                      |   |
| · <b>Appearance:</b>  |   |
| · <b>Form:</b>  | Powder  |
| · <b>Colour:</b>  | White   |
| · <b>Odour:</b>   | Slight  |
| · <b>Odour threshold:</b>   | Not determined.                               |
| · <b>pH-value (100 g/l) at 25 °C:</b>                             | 5,6 - 7,5                                     |
| · <b>Change in condition</b>                                      |   |
| · <b>Melting point/Melting range:</b>                             | 0 °C  |
| · <b>Boiling point/Boiling range:</b>                             | Undetermined.                                 |
| · <b>Flash point:</b>   | > 250 °C                                      |
| · <b>Flammability (solid, gaseous):</b>                           | Product is not flammable.                     |
| · <b>Ignition temperature:</b>                                    |   |
| · <b>Decomposition temperature:</b>                               | Not determined.                               |
| · <b>Self-igniting:</b>   | Not determined.                               |
| · <b>Danger of explosion:</b>                                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>  |   |
| · <b>Lower:</b>   | Not determined.                               |
| · <b>Upper:</b>   | Not determined.                               |
| · <b>Vapour pressure:</b>   | Not applicable.                               |
| · <b>Density:</b>   | Not determined.                               |
| · <b>Relative density</b>   | Not determined.                               |
| · <b>Vapour density</b>   | Not applicable.                               |
| · <b>Evaporation rate</b>   | Not applicable.                               |
| · <b>Solubility in / Miscibility with water:</b>                  |   |
| Not determined.   |   |
| · <b>Partition coefficient (n-octanol/water):</b> Not determined. |   |
| · <b>Viscosity:</b>   |   |
| · <b>Dynamic:</b>   | Not applicable.                               |
| · <b>Kinematic:</b>   | Not applicable.                               |
| · <b>Other information</b>  |   |
| No further relevant information available.                        |   |

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Do not allow dust to accumulate.
- **Incompatible materials:** Strong oxidants
- **Hazardous decomposition products:** Carbon dioxide, carbon monoxide

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### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitisation:** No sensitising effects known.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |                                       |                 |
|---------------------------------------|-----------------|
| · <b>UN-Number</b>                    | Void            |
| · <b>ADR, ADN, IMDG, IATA</b>         | Void            |
| · <b>UN proper shipping name</b>      | Void            |
| · <b>ADR, ADN, IMDG, IATA</b>         | Void            |
| · <b>Transport hazard class(es)</b>   | Void            |
| · <b>ADR, ADN, IMDG, IATA</b>         | Void            |
| · <b>Class</b>                        | Void            |
| · <b>Subsidiary risk</b>              | -               |
| · <b>Packing group</b>                | Void            |
| · <b>ADR, IMDG, IATA</b>              | Void            |
| · <b>Environmental hazards:</b>       |                 |
| · <b>Marine pollutant:</b>            | No              |
| · <b>Special precautions for user</b> | Not applicable. |
| · <b>ERG No.</b>                      | -               |

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- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**      *Not applicable.*
- **UN "Model Regulation":**      -

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **GHS label elements**  
*The substance is classified and labelled according to the Globally Harmonised System (GHS).*
- **Hazard pictograms**



GHS07

- **Signal word** *Warning*
- **Hazard statements**  
*May cause respiratory irritation.*
- **Precautionary statements**  
*Avoid breathing dust/fume/gas/mist/vapours/spray.*  
*IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*  
*Call a POISON CENTER/doctor if you feel unwell.*  
*Store locked up.*  
*Store in a well-ventilated place. Keep container tightly closed.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Abbreviations and acronyms:**  
*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*  
*ICAO: International Civil Aviation Organisation*  
*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*