

#### 1. IDENTIFICATION

Product Name Whey Protein

Other Names Instantised Whey Protein Isolate; Whey Protein Concentrate (WPC); Whey Protein Hydrolysate; Whey Protein Isolate (WPI);

WPC - Low lactose

**Uses** Food applications; Feed supplement.

Chemical FamilyNo Data AvailableChemical FormulaUnspecifiedChemical NameWhey

Product Description No Data Available

#### Contact Details of the Supplier of this Safety Data Sheet

 Organisation
 Location
 Telephone

 Redox Ltd
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> Wiri Auckland 2104 New Zealand

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Seksyen 33, Shah Alam Premier Industrial Park

40400 Shah Alam Sengalor, Malaysia

## **Emergency Contact Details**

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420

+1-703-527-3887

#### 2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled

Redox Ltd Corporate Office Sydney Locked Bag 15 Minto NSW 2566 Australia 2 Swettenham Road Minto NSW 2566 Australia All Deliveries: 4 Holmes Road Minto NSW 2566 Australia

Phone Fax E-mail Web ABN

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Adelaide
Brisbane
Melbourne
Perth
Sydney

New Zealand Auckland Christchurch Hawke's Bay UK Malaysia
Kuala Lumpur
USA
Los Angeles
Oakland
Mexico
Solitillo



#### **Globally Harmonised System**

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Signal Word None

#### **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Whey	Unspecified	92129-90-3	99 - 99.5 %
Processing aids	Unspecified	Unspecified	0.5 - 1%

#### 4. FIRST AID MEASURES

### Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention if you feel

unwell. Never give anything by mouth to an unconscious person.

Eye IF IN EYES: Flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and

lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation

persists, get medical advice/attention.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation

occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. If

 $respiratory\ symptoms\ persist,\ get\ medical\ advice/attention.$ 

Advice to Doctor Treat symptomatically.

**Medical Conditions Aggravated by** Possible allergen to those allergic to bovine milk products.

**Exposure** 

#### **5. FIRE FIGHTING MEASURES**

**General Measures** If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Combustible material; May burn but does not ignite readily.

**Extinguishing Media**Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Do not use water jets if dust may be

dispersed in air.

Fire and Explosion Hazard Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

**Hazardous Products of** 

Combustion

Fire may produce irritating and/or toxic fumes, including oxides of Carbon.

**Special Fire Fighting Instructions** Contain runoff from fire control water - Runoff may pollute waterways.

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may

provide limited protection.

Flash Point

Lower Explosion Limit

Upper Explosion Limit

Auto Ignition Temperature

Hazchem Code

No Data Available

No Data Available

No Data Available

#### **6. ACCIDENTAL RELEASE MEASURES**

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid

generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures Collect material (take up dry) and place into suitable containers for disposal (see SECTION 13). Avoid dispersal of dust in

the air (i.e. clearing dusty surfaces with compressed air). Non-sparking tools should be used.

**Containment** Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

**Decontamination** Wash area with water.

**Environmental Precautionary** 

Measures

Prevent entry into drains and waterways.

**Evacuation Criteria** Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures Use personal protective equipment as required (see SECTION 8).

## 7. HANDLING AND STORAGE

**Handling** Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

**Storage** Store at ambient temperature in a clean, dry and well-ventilated place, out of direct sunlight. Keep container tightly

closed. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION

10).

**Container** Keep in the original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

**Exposure Limits** No Data Available

**Biological Limits** No information available.

**Engineering Measures** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area.

**Personal Protection Equipment** 

- Respiratory protection: Wear respiratory protection in case of inadequate ventilation or high dust concentrations. Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses/goggles.
- Hand protection: Handle with gloves. No recommendation.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. No recommendation.

**Special Hazards Precaustions** 

Where appropriate, employ grounding, venting, and explosion relief provisions in accordance with accepted engineering practices in processes capable of generating dust and/or static electricity. Avoid accumulation of dust on surfaces to prevent secondary dust explosions.

**Work Hygienic Practices** 

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Powder

**Appearance** Odour Neutral, slight dairy Colour Off-white to cream рΗ No Data Available **Vapour Pressure** No Data Available **Relative Vapour Density** No Data Available **Boiling Point** No Data Available **Melting Point** No Data Available **Freezing Point** No Data Available Solubility Soluble in water **Specific Gravity** No Data Available **Flash Point** No Data Available **Auto Ignition Temp** No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available Density No Data Available **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available **Vapour Temperature** No Data Available Viscosity No Data Available

Additional Characteristics No information available.

**Potential for Dust Explosion** Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

No Data Available

No Data Available

**Volatile Percent** 

**VOC Volume** 

**Fast or Intensely Burning** 

Characteristics

No information available.

Flame Propagation or Burning

**Rate of Solid Materials** 

No information available.

**Non-Flammables That Could** Contribute Unusual Hazards to a No information available.

**Properties That May Initiate or Contribute to Fire Intensity** 

May burn but does not ignite readily.

**Reactions That Release Gases or** 

**Vapours** 

Fire/decomposition may produce irritating and/or toxic fumes, including oxides of Carbon.

Release of Invisible Flammable

Vapours and Gases

No information available.

#### 10. STABILITY AND REACTIVITY

**General Information** No information available.

**Chemical Stability** Stable.

**Conditions to Avoid** Avoid generating dust. Keep away from heat and sources of ignition.

**Materials to Avoid** Incompatible/reactive with strong oxidising agents.

**Hazardous Decomposition** 

**Products** 

Fire/decomposition may produce irritating and/or toxic fumes, including oxides of Carbon.

**Hazardous Polymerisation** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**General Information** Information on possible routes of exposure:

- Ingestion: No adverse effects expected. Ingestion of significant amount may cause gastrointestinal upset.

- Eye contact: May cause (mechanical) eye irritation. - Skin contact: May cause (mechanical) skin irritation.

- Inhalation: Excessive inhalation of dust may affect nose, throat and lungs; May cause coughing and breathing

difficulties. Repeated and prolonged inhalation of dust may affect the respiratory system.

**Carcinogen Category** None

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** No information available. Persistence/Degradability No information available. **Mobility** No information available.

**Environmental Fate** Prevent entry into drains and waterways.

**Bioaccumulation Potential** No information available. **Environmental Impact** No Data Available

#### 13. DISPOSAL CONSIDERATIONS

**General Information** Dispose of contents/container in accordance with local/regional/national regulations.

**Special Precautions for Land Fill** No information available.

#### 14. TRANSPORT INFORMATION

#### Land Transport (Australia)

ADG Code

Proper Shipping Name

Class

No Data Available

Subsidiary Risk(s)

No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

### Land Transport (Malaysia)

ADR Code

 Proper Shipping Name
 Whey Protein

 Class
 No Data Available

 Subsidiary Risk(s)
 No Data Available

 No Data Available

 UN Number
 No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

#### Land Transport (New Zealand)

NZS5433

Proper Shipping Name Whey Protein

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

## Land Transport (United States of America)

US DOT

Proper Shipping Name Whey Protein

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

**Sea Transport** 

IMDG Code

**Proper Shipping Name** Whey Protein Class No Data Available No Data Available Subsidiary Risk(s) **UN Number** No Data Available Hazchem No Data Available No Data Available **Pack Group Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

**Air Transport** 

IATA DGR

Proper Shipping NameWhey ProteinClassNo Data AvailableSubsidiary Risk(s)No Data AvailableUN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

## **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification**NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

## 15. REGULATORY INFORMATION

General Information No Data Available
Poisons Schedule (Aust) Not Scheduled

## **Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Assessed

#### **National/Regional Inventories**

Australia (AIIC) Not Determined

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) Not Determined

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Not Determined

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

## **16. OTHER INFORMATION**

 $\textbf{Related Product Codes} \\ \textbf{WHEYPR0100}, \textbf{WHEYPR1000}, \textbf{WHEYPR10001}, \textbf{WHEYPR10002}, \textbf{WHEYPR10003}, \textbf{WHEYPR10004}, \textbf{WHEYPR10005}, \textbf{WHEYPR2000}, \textbf{WHEYPR10005}, \textbf{WHEYPR10005}, \textbf{WHEYPR20006}, \textbf{WHEYPR10005}, \textbf{WHEYPR20006}, \textbf{WH$ 

WHEYPR2001, WHEYPR2100, WHEYPR2200, WHEYPR2250, WHEYPR2300, WHEYPR2400, WHEYPR2500, WHEYPR3000,

WHEYPR3500, WHEYPR4000, WHEYPR4500, WHEYPR5000, WHEYPR5400, WHEYPR5500, WHEYPR5600,

WHEYPR6000, WHEYPR6020, WHEYPR6500, WHEYPR6600, WHEYPR7000, WHEYPR7100, WHEYPR7150, WHEYPR7200, WHEYPR8000, WHEYPR8100, WHEYPR8350, WHEYPR8800, WHEYPR9010, WHEYPR9100, WHEYPR

WHEYPR9200

Revision 3

**AICS** Australian Inventory of Chemical Substances

atm Atmosphere

**CAS** Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

**COD** Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

**HSNO** Hazardous Substance and New Organism

**IDLH** Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

**Ib** Pound

**LC50** LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

**LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m<sup>3</sup> Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

**NOHSC** National Occupational Heath and Safety Commission

**OECD** Organisation for Economic Co-operation and Development

Oz Ounce

**PEL** Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

**R** Rankine

**RCP** Reciprocal Calculation Procedure

**STEL** Short Term Exposure Limit

**TLV** Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

**UN** United Nations

wt Weight