

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HYDROLYZED COLLAGEN, POWDER (FROM OVINE SKIN)  
PART NUMBER:  
GENERAL USE: Intended for laboratory, in vitro use only. Not for drug, household or other uses  
PRODUCT DESCRIPTION: Cream coloured powder, characteristic odour

**HOLISTA  
COLLTECH**

MANUFACTURER'S NAME  
Holista CollTech Limited

DATE PREPARED: January 20, 2014  
SUPERSEDES: Not applicable

Page 1 of 4

ADDRESS (NUMBER, STREET, P.O. BOX)  
Level 4, 66 Kings Park Road

TELEPHONE NUMBER FOR INFORMATION  
+61 8 6141 3500

(CITY, STATE AND ZIP CODE)  
WEST PERTH WA 6005 Australia

EMERGENCY TELEPHONE NUMBER  
+61 8 9734 4533

## SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	% (by weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES Full Text Section 16
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CAS # 92113-31-0; EINECS # 295-635-5;  
No hazardous materials present as defined by OSHA –  
29 CFR 1910.1000; EPA – 40 CFR 260 – 281, 302, 355,  
370, 372; DOT - 49 CFR 172; WHMIS or EC Directive  
91 / 155 / EEC.

## SECTION 3 – HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Mild liquid, prolonged contact may cause skin & eye irritation. Ingestion may cause gastric distress. Hazard Symbols for this product – None.

Risk Phrases – Not classified

### POTENTIAL HEALTH EFFECTS

**INHALATION:** Inhalation of dusts, mists or vapours may cause irritation to upper respiratory tract and mucous membranes.

**SKIN:** Contact with skin may cause irritation, dermatitis.

**EYES:** Contact with eyes may cause pain and irritation.

**INGESTION:** May be irritating to digestive tract; may cause gastric distress, stomach pains.

CARCINOGENICITY

NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No





# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HYDROLYZED COLLAGEN, POWDER (FROM OVINE SKIN)

January 20, 2014

Page 2 of 4

## SECTION - 4 FIRST AID MEASURES

**INHALATION:** Remove affected person to fresh air; if symptoms persist seek medical attention.

**SKIN:** Remove contaminated clothing; wash affected area with soap and plenty of water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

**EYES:** Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

**INGESTION:** Give two glasses of water for dilution; DO NOT induce vomiting; Rinse mouth with water; never give anything by mouth to an unconscious person; seek medical attention.

## SECTION 5 – FIRE FIGHTING MEASURES

**GENERAL HAZARDS:** Product may be acidic. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

### EXTINGUISHING MEDIA

Carbon dioxide, water, water fog, dry chemical, chemical foam.

### FIRE FIGHTING PROCEDURES

Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. Material may be acidic and will irritate the eyes if product is allowed to directly contact the eyes.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Contact with B:C extinguisher powder may produce large amounts of carbon dioxide.

### HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes or vapours, oxides of carbon

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Avoid dust formation. Avoid breathing vapours, mist or gas. Small spills – wash to sanitary sewer with plenty of water. Large spills – confine spill, soak up with approved absorbent, shovel product into approved container for disposal. Wash area with plenty of water. Do not discharge into lakes, ponds, streams or public waters.

## SECTION 7 – HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Provide appropriate exhaust ventilation at places where dust is formed. Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH			
	TWA ppm	TQA mg/m <sup>3</sup>	STEL ppm	STEL g/m <sup>3</sup>	TWA ppm	TQA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>

No hazardous materials present as defined by OSHA – 29 CFR 1910.1000; EPA – 40 CFR 260 – 281, 302, 355, 370, 372; DOT - 49 CFR 172; WHMIS or EC Directive 91 / 155 / EEC.

### PERSONAL PROTECTION:

**RESPIRATORY PROTECTION:** None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds standard workplace limits, NIOSH approved respirator must be worn. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

**PROTECTIVE GLOVES:** Neoprene, butyl or nitrile rubber gloves with cuffs. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**EYE PROTECTION:** Chemical splash goggles. Refer to 29 CFR 1910.133 or European Standard EN 166.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Coveralls, apron, or other equipment should be worn to minimize skin contact, safety eyewash station nearby. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.





**MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: HYDROLYZED COLLAGEN, POWDER (FROM OVINE SKIN)

January 20, 2014

Page 3 of 4

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR Cream-coloured powder, characteristic odour	VAPOR PRESSURE 17 mm Hg @ 20° C
pH 3.8 – 7.6 (in water)	SPECIFIC GRAVITY (WATER = 1) Approximately 1.00
BOILING POINT / BOILING RANGE Decomposes at 212° F (100° C)	SOLUBILITY IN WATER Complete
FLASH POINT No data available	VISCOSITY Not specified
FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable	VAPOR DENSITY (AIR = 1) > 1
AUTOIGNITION TEMPERATURE Not determined	EVAPORATION RATE (WATER = 1) < 1

**SECTION 10 – STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: x	CONDITIONS TO AVOID: Extreme temperatures.
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INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizers and strong acids. Safe practice measures in the presence of dust to avoid contact with explosions (concentrations <0.1g/l).

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapours, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: x	CONDITIONS TO AVOID: None
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**SECTION 11 – TOXICOLOGICAL INFORMATION**

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
No hazardous materials present as defined by OSHA – 29 CFR 1910.1000; EPA – 40 CFR 260 – 281, 302, 355, 370, 372; DOT - 49 CFR 172; WHMIS or EC Directive 91 / 155 / EEC.	92113-31-0; 295-635-5	Rat, oral: 5000 mg/kg	No data available

**SECTION 12 – ECOLOGICAL INFORMATION**

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations; do not discharge into lakes, ponds, streams or public waters. Product is classified as non-hazardous; however, non-hazardous materials may become hazardous waste upon contact with other products. Refer to 40 CFR 260 – 299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

**SECTION 14 – TRANSPORT INFORMATION**

PROPER SHIPPING NAME; DOT HAZARD CLASS / Packaging Group; REFERENCE: UN / NA IDENTIFICATION NUMBER; LABEL HAZARD SYMBOLS:	Non – Hazardous for Transport Not regulated Not Applicable None None Required None	IATA HAZARD CLASS / Packaging Group: IMDG HAZARD CLASS: RID/ ADR Dangerous Goods Code: UN TDG Class / Packaging Group: Hazard Identification Number (HIN):	Not regulated Not regulated Not regulated Not regulated None
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Note: Transportation information provided is for reference only. Client is urged to consult 49 CFR 100 – 177, IMDG, IATA, EU United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering



# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HYDROLYZED COLLAGEN, POWDER (FROM OVINE SKIN)

January 20, 2014

Page 4 of 4

## SECTION 15 – REGULATORY INFORMATION

### TSCA (USA – Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 EFR 723.50.

### SARA TITLE III (USA – Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories:

None

313 Reportable Ingredients:

None

### CERCLA (USA – Comprehensive Response Compensation and Liability Act)

None

### California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

### CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: Not controlled

### IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

### DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

### EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

### REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals)

The regulation (EC) N° 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals does not apply to gelatine/collagen and their hydrolysates as they are natural polymers and/or chemically modified natural polymers.

WGK Water Quality Index: nwg

VbK Index: Not applicable.

### RISK PHRASES:

Not classified

### SYMBOL(S) REQUIRED FOR LABEL

Not classified

### SAFETY PHRASES:

S2 Keep out of the reach of children.  
S24/25 Avoid contact with skin and eyes.

## SECTION 16 – OTHER INFORMATION

Notes & full R-Phrase text

Not classified

### HMIS HAZARD RATINGS

HEALTH

1

\* = Chronic Health Hazard

2 = MODERATE

FLAMMABILITY

0

0 = INSIGNIFICANT

3 = HIGH

PHYSICAL HAZARD

0

1 = SLIGHT

4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT

C

Safety Glasses, Gloves, Apron

### REVISION SUMMARY:

This MSDS has been revised in the following sections: Not applicable

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

