

### PENBIND(R) 850

### Section 1 - Identification

Product identifier:

Product Number: 05690400

Product Name: PENBIND(R) 850

modified food starch

Other means of identification:

Chemical family: Modified starch

Recommended use of the chemical and restrictions on use:

Recommended use: Food products

Restrictions on use: Not Available

**Details of manufacturer or importer:** Ingredion ANZ Pty Ltd

Suite 3.02 level 3, Building 1, Riverview Business Park,

3 Richardson Place, North Ryde NSW 2113 Tel: +612 9911 1200 (business hours)

Emergency phone number: CHEMTREC - Emergency Telephone (Medical & Transport Incident With

Product- 7Days/24 Hours)

The global (outside US) number: +1 703-741-5970

Australia: +(61)-290372994

China: 4001-204937 India: 000-800-100-7141\* Indonesia: 001-803-017-9114\* Japan: +(81)-3-4520-9637 Malaysia: +(60)-392125794 New Zealand: +(64)-98010034

Philippines: +(63) 2-395-3308, 1-800-1-322-0553\* Singapore: +(65)-31638374, 800-101-2201\* South Korea: +(82) 070-7686-0086, 080-880-0454\* Taiwan: +886-2-7741-4207\*, 00801-49-1821\*

Thailand: 1800014808\* Vietnam: +(84)-444581938

\* Phone numbers for countries marked with an asterisk must be dialed

within the country

SDS Requests and general information, please contact Local Customer

Service: See phone numbers in Section 16



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#### Classification of the hazardous chemical:

GHS Hazard Symbols:

No hazard symbols required

**GHS Classification:** Not classified by GHS criteria **Signal Word:** No Signal Word needed.

**Hazard Statements:** No Hazard Statement needed.

**Precautionary Statements:** No Precautionary Statement needed.

**Australia Supplemental Hazard** 

Information:

No data available

Hazards not otherwise classified: None known.

% unknown toxicity (Oral):
% unknown toxicity (Dermal):
100 % of the mixture consists of ingredients of unknown toxicity
100 % of the mixture consists of ingredients of unknown toxicity

#### Section 3 - Composition and information on ingredients

| Chemical Name                | CAS No. | Concentration (% by weight) |
|------------------------------|---------|-----------------------------|
| Not classified as hazardous. |         |                             |
|                              |         |                             |

### Section 4 - First-aid measures

### Description of necessary first aid measures:

Inhalation: Remove to fresh air. Get medical attention if irritation persists.

Eye Contact: Remove particles by irrigating with eye wash solution or clean water,

holding the eyelids apart. If symptoms develop, obtain medical attention.

Skin Contact: Wash skin with soap and water.

Ingestion: None required.

**Symptoms caused by exposure:** Possible physical irritant from dust particles. Potential for dust explosion.

Medical attention and special

treatment:

No further first aid information is available.

### Section 5 - Firefighting measures

### Suitable extinguishing equipment:



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Suitable extinguishing media: Dry Chemical, CO2, Water Fog, Foam

Unsuitable extinguishing media: None known.

Specific hazards arising from the

chemical:

Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 80 mg/l. Minimum energy to ignite cloud

by electrical spark- approx. 0.10 joules.

Hazardous combustion products: This product does not undergo spontaneous decomposition. Typical

combustion products are carbon monoxide, carbon dioxide, nitrogen and

water.

Special protective equipment and

precautions for firefighters:

No special procedures are required.

#### Section 6 - Accidental release measures

Personal precautions, protective

equipment and emergency

procedures:

Use personal protective equipment as required.

Environmental precautions: No data available

Methods and materials for containment and cleaning up:

Normal precautions for "nuisance dust" should be observed. Avoid prolonged inhalation of dust. Sweep up or vacuum up and place in

suitable container for disposal.

#### Section 7 - Handling and storage

**Precautions for safe handling:** As with all chemicals, good industrial hygiene practices should be followed

when handling this material.

Conditions for safe storage, including any incompatibilities:

Safe storage conditions: Keep container closed when not in use.

Static Sensitivity: Yes

Other precautions: Use care to minimize dust generation in normal use conditions.

Avoid dispersing the powder in the air. Prevent buildup of powder on

surfaces.

Materials to Avoid/Chemical

Incompatibility:

None known

### Section 8 - Exposure controls and Personal protection



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#### **Exposure control measures:**

| Chemical Name     | Australia - Occupational Exposure<br>Standards - TWAs (ppm) | Australia - Occupational Exposure<br>Standards - STELs (ppm) |
|-------------------|---|--|
| No data available |   |  |

This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m3.

**Engineering controls:** General.

Individual protection measures, for example personal protective equipment (PPE):

**Respiratory protection:** NIOSH approved dust mask.

Thermal hazards: Not available

**Eye and face protection:** Safety glasses recommended.

Skin protection: Skin protection may be required depending on product temperature.

Gloves: Gloves are not normally required for foreseeable conditions of use.

Other protective equipment: Not normally required. Not applicable.

**General hygiene conditions:** Wash before eating, drinking, or using toilet facilities.

### Section 9 - Physical and chemical properties

### Appearance (physical state, color etc.):

Pure Substance or Mixture:
Physical State:
Colour:
Powder
White
Odour:
Starch

Odour Threshold:

pH:

Not available

Not available

pH in (1%) Solution:

Approximately 7

Melting point/freezing point:

Melting Point:

Freezing point:

Initial boiling point and boiling range:

Not available

Not available

Not available

Not applicable

Evaporation Rate:

Not applicable

Flammability (solid, gas): No Upper/lower flammability or explosive limits:

Upper flammability or explosive limits: Not available Lower flammability or explosive limits: Not available



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Vapour pressure: Not available Vapour density: Not available

1.5 Relative density:

Solubility: Insoluble Partition coefficient: n-octanol/water: Not available Not available **Auto-ignition temperature: Decomposition temperature:** Not available Viscosity: Not applicable

Volatiles: None

**Volatile Organic Chemicals:** Not applicable

Other Information:

**Particle Characterstics:** Not applicable Particle size: Not applicable Shape and aspect ratio: Not applicable Size distribution: Not applicable Surface area: Not applicable Heat of decomposition: Not applicable Specific heat value: Not applicable Saturated vapour concentration: Not applicable Release of invisible flammable Not applicable

vapours and gases:

**Crystallinity:** Not applicable **Dustiness:** Not applicable Degree of aggregation or Not applicable

agglomeration, and dispersibility:

**Redox potential:** Not applicable **Biodurability or biopersistence:** Not applicable Surface coating or chemistry: Not applicable

### Section 10 - Stability and reactivity

Reactivity: Not expected to be reactive.

Chemical stability: Stable

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: None known Incompatible materials: None known

**Hazardous decomposition products:** This product does not undergo spontaneous decomposition. Typical

combustion products are carbon monoxide, carbon dioxide, nitrogen and

water.



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### Section 11 - Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects:

Information on possible routes of

exposure:

Ingestion, Inhalation, Skin Contact, Eye Contact

**Target Organs Potentially Affected By** 

**Exposure:** 

Not applicable.

Early onset symptoms related to

exposure:

No data available

**Toxic Effects:** This product is considered as being non-toxic. Use of good industrial

hygiene practices is recommended.

**Exposure levels and health effects:** 

Acute toxicity:

Ingestion Toxicity: Based on available data, the GHS classification criteria are not met. Acute toxicity - Dermal: Based on available data, the GHS classification criteria are not met. Inhalation Toxicity: Based on available data, the GHS classification criteria are not met. Skin corrosion/irritation: Based on available data, the GHS classification criteria are not met. Serious eye damage/irritation: Based on available data, the GHS classification criteria are not met. Respiratory sensitisation: Based on available data, the GHS classification criteria are not met. Skin sensitisation: Based on available data, the GHS classification criteria are not met. Germ cell mutagenicity: Based on available data, the GHS classification criteria are not met.

Reproductive Toxicity: No.

Carcinogenicity: No.

**Specific Target Organ Toxicity** 

(STOT)-single exposure:

Based on available data, the GHS classification criteria are not met.

**Specific Target Organ Toxicity (STOT)** 

-repeated exposure:

Based on available data, the GHS classification criteria are not met.

**Aspiration hazard:** Based on available data, the GHS classification criteria are not met.

### Numerical measures of toxicity (such as acute toxicity estimates):

| Chemical Name  | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|-----------|-------------|-----------------|
| There is no known toxicity data available for the components or the product. |           |             |                 |



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#### Section 12 - Ecological information

**Ecotoxicity:** No information available.

**Ecological Toxicity Data:** 

| Chemical Name     | CAS No. | Aquatic LC50 Fish | Aquatic ERC50<br>Algae | Aquatic EC50<br>Crustacea |
|-------------------|---------|-------------------|------------------------|---------------------------|
| No data available |         |                   |                        |                           |

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil:UnknownOther adverse effects:None known.

### Section 13 - Disposal considerations

**Disposal methods:** Disposal should be in accordance with local, state or national legislation.

**Empty container warnings:** Empty containers may contain product residue; follow SDS and label

warnings even after they have been emptied.

### **Section 14 - Transport information**

**Transport hazard class:** 

ADG Classification:

UN number:

Proper shipping name or technical

Not regulated

Not applicable

name:

Not applicable Not applicable

Toxic Inhalation Hazard Zone: No data available

**Environmental hazards for transport** 

purposes:

Packing group:

No data available

Transport in bulk (according to Annex

II of MARPOL 73/78 and the IBC

Code):

No data available

**HAZCHEM Code:**No data available

**Special precautions for user:** Consult IMO regulations before transporting in bulk by ocean.



| Section 15 - Regulatory                   | , information                       |  |  |  |  |
|---|-------------------------------------|--|--|--|--|
| Section 15 - Regulatory                   | mormation                           |  |  |  |  |
| Safety, health and enviro                 | nmental regulations:                |  |  |  |  |
| TSCA Status:                              |                                     | ct is manufactured in comp<br>s Control Act, 15 U.S.C. 26  | liance with all provisions of the To                       |  |  |
| FDA                                       |                                     | 21CFR172.892   |  |  |  |
| Agricultural and Veterin                  | nary Chemicals Code Act 199         | 4 (Commonwealth)   |  |  |  |
| Chemical Name                             | CAS No.                             | Australia - Agricu<br>and Veterinary<br>Chemicals<br>(Administration)<br>Regulations - Sch<br>- Part 2 | and Veterinary Chemicals (Administration)                  |  |  |
| No data available                         |                                     |  |  |  |  |
| Australia Dangerous Go<br>Chemical Name   | CAS No.                             | Australia - Danger<br>Goods Code - AD<br>Hazard Classifica   | G - Goods Code - ADG -                                     |  |  |
| No data available                         |                                     |  |  |  |  |
| Industrial Chemicals (No<br>Chemical Name | otification and Assessment) CAS No. | Act 1989 (AICS)  Inventory - Austra Inventory of Chen Substances (AICS Comparable Chen                 | nical Inventory of Chemical Substances (AICS) -            |  |  |
| No data available                         |                                     |  |  |  |  |
| Inventory - Australia - Ir                | nventory of Industrial Chemic       | als (AIIC)   | 1  |  |  |
| Chemical Name                             | CAS No.                             | Inve   | entory - Australia - Inventory of ustrial Chemicals (AIIC) |  |  |
|   |                                     | ····•  |  |  |  |



### Montreal Protocol on Substances that Deplete the Ozone Layer

| Chemical Name     | CAS No. | Montreal Protocol on Substances that<br>Deplete the Ozone Layer |
|-------------------|---------|---|
| No data available |         |   |

### **Stockholm Convention on Persistent Organic Pollutants**

| Chemical Name     | CAS No. | Stockholm Convention on Persistent<br>Organic Pollutants |
|-------------------|---------|--|
| No data available |         |  |

### Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and **Pesticides in International Trade**

| Chemical Name     | CAS No. | Rotterdam Convention on the Prior<br>Informed Consent Procedure for<br>Certain Hazardous Chemicals and<br>Pesticides in International Trade |
|-------------------|---------|---|
| No data available |         |   |

#### Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal

| Chemical Name     | CAS No. | Basel Convention on the Control of<br>Transboundary Movements of<br>Hazardous Wastes and their Disposal |
|-------------------|---------|---|
| No data available |         |   |

### Section 16 - Any other relevant information

**Revision Date:** 08-06-2024 Supercedes: 08-04-2023

**Revision Number:** 5 Reason for revision: New

Australia:Ingredion ANZ Pty Ltd FOR INFORMATION CONTACT:

Customer Service: +61-2-9911 1200 (business hours)

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