

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product Number: 05690400
Product Name: PENBIND(R) 850
modified food starch

Other means of identification:

Chemical family: Modified starch
REACH Registration Number:

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified use: Food products
Uses advised against: Not Available

1.3 Details of the supplier of the safety data sheet:

Ingredion India Pvt Ltd
Unit no 1502E, 15th Floor, Rupa Renaissance,
Plot no D-33, D207 Juinagar MIDC Road,
TTC Industrial Area, Navi Mumbai 400705
Maharashtra, India
Tel: +91 22 6820 0600 (business hours)

1.4 Emergency telephone 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
No data available

Authorised Representative for REACH Registration:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to GHS Not classified as hazardous in accordance with GHS Regulation.

Regulation:

2.2 Label elements:

Hazard pictograms: No hazard symbols required

Signal word: No signal word needed.

Hazard statements: No Hazard Statement needed.

Precautionary statements: No Precautionary Statement needed.

Supplemental Hazard information (EU): No Supplemental Hazard Information available

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

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

2.3 Other hazards: None known.

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Substance Name	Concentration (% by weight)	CAS No.	REACH Registration Number
No hazardous components.			

SECTION 4: First aid measures

4.1 Description of 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.

Self protection of the first aider: No data available

4.2 Most important symptoms and effects, both acute and delayed: Possible physical irritant from dust particles. Potential for dust explosion.

4.3 Indication of any immediate medical attention and special No further first aid information is available.

treatment needed:

SECTION 5: Firefighting measures

5.1 Extinguishing media:

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

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture:

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.

5.3 Advice for firefighters:

No special procedures are required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Non-emergency personnel:

Emergency responders: Use personal protective equipment as required.

6.2 Environmental precautions:

Not available

6.3 Methods and material 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.

6.4 Reference to other sections:

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

As with all chemicals, good industrial hygiene practices should be followed when handling this material.

7.2 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

7.3 Specific end use(s):

Food products

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Substance Name	India - Permissible Exposure Limits - TWAs	India - Permissible Exposure Limits - STELs	India - Permissible Exposure Limits - CEILs
No data available			

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

DNEL: None known.

PNEC: None known.

8.2 Exposure controls:

Appropriate engineering controls: General.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses recommended.

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

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

Respiratory protection: NIOSH approved dust mask.

Thermal hazards: Not available

Environmental exposure controls:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Pure Substance or Mixture: Pure

Physical state: Powder

Colour: White

Odour: Starch

Odour Threshold: Not available

pH: Not available

pH in (1%) Solution: Approximately 7

Melting point/freezing point:

Melting Point: Not available

Freezing point: Not available

Boiling point or initial boiling point Not available

and boiling range:

Flash point: Not applicable

Evaporation Rate: Not applicable

Flammability: No

Upper/lower flammability or explosive limits:

Upper flammability or explosive limits: Not available

Lower flammability or explosive limits: Not available

Vapour pressure: Not available

Vapour density: Not available

Density and/or relative density: 1.5

Solubility: Insoluble

Partition coefficient n-octanol/water (log value): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Not applicable

Volatiles: None

Volatile Organic Chemicals: Not applicable

Kinematic viscosity: Not available

Particle characteristics: Not applicable

9.2 Other information:

Molecular Weight: > 10000

SECTION 10: Stability and Reactivity

10.1 Reactivity: Not expected to be reactive.

10.2 Chemical stability: Stable

10.3 Possibility of hazardous reactions: Hazardous polymerization will not occur.

10.4 Conditions to avoid: None known

10.5 Incompatible materials: None known

10.6 Hazardous decomposition products: This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

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):

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

SECTION 12: Ecological information

12.1 Toxicity: No information available.

Ecological Toxicity Data:

Substance Name	CAS No.	Aquatic LC50 Fish	Aquatic ERC50 Algae	Aquatic EC50 Crustacea
No data available				

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: Unknown

12.5 Results of PBT and vPvB assessment:

12.6 Endocrine disrupting properties: None known.

12.7 Other adverse effects: None known.

SECTION 13: Disposal considerations

13.1 Waste treatment 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

DOT Classification: Not regulated

14.1 UN number: Not applicable

14.2 UN proper shipping name: Not applicable

14.3 Transport hazard class(es): Not applicable

14.4 Packing group: Not applicable

Toxic Inhalation Hazard Zone: No data available

14.5. Environmental hazards: No data available

14.6 Maritime transport in bulk according to IMO instruments: No data available

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA Status: This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.

FDA 21CFR172.892

India - Ozone Depleting Substances - Schedule I:

Substance Name	CAS No.	India - Ozone Depleting Substances - Schedule I
No data available		

India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals:

Substance Name	CAS No.	India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals
No data available		

SECTION 16: Other information

Revision Date: 08-06-2024
Supersedes: 08-04-2023
Revision Number: 5
Reason for revision: New
For Information Contact India:
 INGREDION INDIA PVT LTD
 Customer Service: +91 22 6820 0600
Hazard statements: No Hazard Statement needed.
Precautionary statements: No Precautionary Statement needed.

Disclaimer:

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