

PENBIND(R) 850

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1 Product identifier: Product Number: Product Name:	05690400 PENBIND(R) 850 modified food starch	
Other means of identification: Chemical family: REACH Registration Number:	Modified starch	
1.2 Relevant identified uses of the subst Relevant identified use:	ance or mixture and uses advised against: 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 Hong Kong: 800-968-793* India: 000-800-100-7141* Indonesia: 001-803-017-9114* Japan: +(81)-3-4520-9637 Malaysia: +(60)-392125794, 1-800-815-308* New Zealand: +(64)-98010034 Philippines: +(63) 2-395-3308, 1-800-1-116-1020* Singapore: +(65)-31581349, 800-101-2201* South Korea: +(82) 070-7686-0086, 00-308-13-2549* Taiwan: +886-2-7741-4207*, 00801-14-8954* Thailand: 001-800-13-203-9987* 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	
Authorised Representative for REACH Registration:	No data available	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:



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Classification according to GHS Regulation:	Not classified as hazardous in accordance with GHS 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)	REACH Registration Number
No hazardous components.		
compenents.		

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	Possible physical irritant from dust particles. Potential for dust explosion.

4.2 Most important symptoms and effects, both acute and delayed:

4.3 Indication of any immediate

No further first aid information is available.



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medical attention and special 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, includ Safe storage conditions:	ling any incompatibilities: 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



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7.3 Specific end use(s):

Food products

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

	India -	India -	India -
Out of an a Name	Permissible	Permissible	Permissible
Substance Name	Exposure Limits -	Exposure Limits -	Exposure Limits -
	TWAs	STELs	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 a	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



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Boiling point or initial boiling point and boiling range:	Not available
Flash point:	Not applicable
Evaporation Rate:	Not applicable
Flammability:	No
Upper/lower flammability or explosive li	mits:
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

Ingestion, Inhalation, Skin Contact, Eye Contact



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exposure:	
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.



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Substance Name	CAS No.	Aquatic LC50 Fish	Aquatic ERC50 Algae	Aquatic EC50 Crustacea
No data available				
12.2 Persistence and degradabi	ility: No d	data available		
12.3 Bioaccumulative potential:	No o	data available		
12.4 Mobility in soil:	Unk	nown		
12.5 Results of PBT and vPvB assessment:				
12.6 Endocrine disrupting prop	erties: Non	e known.		
12.7 Other adverse effects:	Non	e known.		
SECTION 13: Disposal consider	ations			
13.1 Waste treatment methods:	Disp	oosal should be in accordan	nce with local, state or	national legislation
Empty container warnings:		oty containers may contain nings even after they have l	•	SDS and label
SECTION 14: Transport Informa	tion			
DOT Classification:	Not	regulated		
14.1 UN number:	Not	applicable		
14.2 UN proper shipping name:	Not	applicable		
= e p. epe. eppge.	• Not	applicable		
	. NOL	applicable		
14.3 Transport hazard class(es) 14.4 Packing group:		applicable		

14.5. Environmental hazards:No data available14.6 Maritime transport in bulk
according to IMO instruments:No data available14.7 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:



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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:	12-22-2022
Supercedes:	11-20-2022
Revision Number:	3
Reason for revision:	New
For Information Contact	India:
For Information Contact	India: INGREDION INDIA PVT LTD
For Information Contact	
For Information Contact Hazard statements:	INGREDION INDIA PVT LTD

Disclaimer:

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