

N-DULGE(TM) 320

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

1.1 Product identifier:

Product Number: 06820323

Product Name: N-DULGE(TM) 320

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 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

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

treatment needed:

No further first aid information is available.



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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: Do not enter fire area without proper protection including self- contained

breathing apparatus and full protective equipment.

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: 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



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

	India -	India -	India -
Cub stance 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: **Eve/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 Pure Substance or Mixture: Physical state: Powder Colour: White Odour: Starch

Odour Threshold: Not available pH: Not available pH in (1%) Solution: Approximately 6

Melting point/freezing point:

Melting Point: Not available Not available Freezing point: Not available

Boiling point or initial boiling point

and boiling range:



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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 availableDecomposition temperature:Not availableViscosity:Not applicable

Volatiles: None

Volatile Organic Chemicals:

Kinematic viscosity:

Not applicable

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 known10.5 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:

Eye Contact, Skin Contact, Inhalation, Ingestion

Target Organs Potentially Affected By Not applicable.



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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:

Wash skin with soap and water. Unlikely to cause harmful effects under

recommended conditions of handling and use.

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

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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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 available12.3 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 regulated14.1 UN number:Not applicable14.2 UN proper shipping name:Not applicable14.3 Transport hazard class(es):Not applicable14.4 Packing group:Not applicableToxic Inhalation Hazard Zone:No data available

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

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:

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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:

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

SECTION 16: Other information

Revision Date: 08-04-2023 **Supercedes:** 12-22-2022

Revision Number: 4
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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