

N-DULGE(TM) 320

Section 1 - Identification

Product identifier:

Product Number: 06820323

Product Name: N-DULGE(TM) 320

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.

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.

Eve 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:

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

Unsuitable extinguishing media: None known.



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Specific hazards arising from the

chemical:

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:

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

breathing apparatus and full protective equipment.

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: 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

Exposure control measures:

Chemical Name	Australia - Occupational Exposure Standards - TWAs (ppm)	Australia - Occupational Exposure Standards - STELs (ppm)
No data available		



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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: Pure
Physical State: Powder
Colour: White
Odour: Starch

Odour Threshold:

pH:

Not available

Not available

pH in (1%) Solution:

Approximately 6

Melting point/freezing point:

Melting Point:

Freezing point:

Not available

Not available

Initial boiling point and boiling range:

Flash Point:

Not applicable

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 Vapour pressure: Not available Vapour density: Not available

Relative density: 1.5
Solubility: Insoluble
Partition coefficient: n-octanol/water: Not available



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Auto-ignition temperature:Not availableDecomposition temperature:Not availableViscosity: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 applicableDustiness:Not applicableDegree of aggregation orNot applicable

and an analysis and discounting

agglomeration, and dispersibility:

Redox potential:

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:

Incompatible materials:

None known

None known

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

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

Information on possible routes ofEye Contact, Skin Contact, Inhalation, Ingestion



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exp	os	ur	e:
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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: 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):

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

Section	12 -	Ecolog	ical in	oform:	ation
Section	12 -	Ecoloa	ıcaı ır	ntorma	ation

Ecotoxicity: No information available.



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Ecological Toxicity Data:

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

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: Unknown

Other 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

ADG Classification:

UN number:

Proper shipping name or technical

Not regulated

Not applicable

Not applicable

name:

Transport hazard class:

Packing group:

Not applicable

Not applicable

No data available

Environmental hazards for transport

purposes:

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

Safety, health and environmental regulations:

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



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Agricultural and Veterinary	Chemicals Code	Act 1994 (Commonwealth)
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Chemical Name	CAS No.	Australia - Agricultural and Veterinary Chemicals (Administration) Regulations - Schedule 1 - Part 2	Australia - Agricultural and Veterinary Chemicals (Administration) Regulations - Schedule 1 - Part 3
No data available			

Australia Dangerous Goods

Chemical Name	CAS No.	Australia - Dangerous Goods Code - ADG - Hazard Classifications	Australia - Dangerous Goods Code - ADG - Regulated Substances
No data available			

Industrial Chemicals (Notification and Assessment) Act 1989 (AICS)

Chemical Name	-	Inventory - Australia - Inventory of Chemical Substances (AICS) - Excluded Use Chemicals
No data available		

Inventory - Australia - Inventory of Industrial Chemicals (AIIC)

Chemical Name	Inventory - Australia - Inventory of Industrial Chemicals (AIIC)
No data available	

Montreal Protocol on Substances that Deplete the Ozone Layer

Chemical Name	CAS No.	Montreal Protocol on Substances that Deplete the Ozone Layer
No data available		

Stockholm Convention on Persistent Organic Pollutants

Chemical Name	CAS No.	Stockholm Convention on Persistent Organic Pollutants
No data available		



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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 Informed Consent Procedure for Certain Hazardous Chemicals and 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 Transboundary Movements of 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

FOR INFORMATION CONTACT: Australia:Ingredion ANZ Pty Ltd

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

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