

### 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:** National Starch Pty Ltd

New Zealand Branch

Unit 5, 706 Great South Road Penrose Auckland 1642

New Zealand

Tel: +64 9 582 0284 (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 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



# N-DULGE(TM) 320

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Classification	Of the	hazardous	chemica	ľ

GHS Hazard Symbols:

No hazard symbols required

GHS Classification: Hazardous to the aquatic environment - Acute Category 3

Signal Word: No signal word needed.

**Hazard Statements:** H402 - Harmful to aquatic life.

**Precautionary Statements:** 

**Prevention:** P273 - Avoid release to the environment.

**Disposal:** P501 - Dispose of contents/container to a suitable disposal site in

accordance with the Hazardous Substances (Disposal) Regulations 2001.

Hazards not otherwise classified: None known.

### Section 3 - Composition/information on ingredients

### Substance:

Not applicable

#### Mixture:

Chemical Name	Common name and synonyms	CAS No.	Concentration (% by weight)
No hazardous components.			

#### 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.

Most important symptoms and effects, acute and delayed, caused by

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

exposure:



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Medical attention and special

treatment:

No further first aid information is available.

#### Section 5 - Fire-fighting measures

Suitable extinguishing equipment:

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.

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

combustion products are carbon monoxide, carbon dioxide, nitrogen and

water.

Special protective equipment and

precautions for fire-fighters:

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:

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/Personal protection



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

	New Zealand -	New Zealand -	New Zealand -	New Zealand -
	Occupational	Occupational	Occupational	Biological
Chemical Name	Exposure	Exposure	Exposure	Exposure Limit -
	Standards - TWA	Standards -	Standards - CEIL	BEL
		STEL		
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.

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, colour etc.):

Pure Substance or Mixture:
Pure
Physical State:
Colour:
Powder
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:

Not available

Not available

Not applicable

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

Upper flammability or explosive limits: Not available



#### N-DULGE(TM) 320

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
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Kinematic viscosity: Not applicable
Particle Characterstics: 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

**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 of

exposure:

Eye Contact, Skin Contact, Inhalation, Ingestion

**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.



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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:

Respiratory sensitisation:

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

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Carcinogenicity: No

**Reproductive Toxicity:**Based on available data, the GHS classification criteria are not met. **Specific Target Organ Toxicity**Based on available data, the GHS classification criteria are not met.

(STOT)-single exposure:

Specific Target Organ Toxicity (STOT) Based on available

-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 - Ecological information

**Ecotoxicity:** No information available.

**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:UnknownOther adverse effects:None known.

#### Section 13 - Disposal considerations

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



# N-DULGE(TM) 320

Empty container warnings:	Empty containers may contain	product residue; follow SDS and label
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warnings even after they have been emptied.

# **Section 14 - Transport information**

UN number:
UN Proper shipping name:
Not applicable
Not applicable
UN dangerous goods class and
Not applicable

subsidiary:

UN Packing group: Not applicable

Toxic Inhalation Hazard Zone: No data available

Environmental hazards (e.g., Marine

pollutant):

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.

# New Zealand - GHS Classifications - HSNO Chemical Classification Information Database (CCID)

Chemical Name	CAS No.	New Zealand - GHS Classifications - HSNO Chemical Classification Information Database (CCID)
No data available		

### New Zealand Inventory of Chemicals (NZIOC)

Chemical Name	New Zealand Inventory of Chemicals (NZIOC)
No data available	

### **New Zealand - Priority List of Hazardous Substances**

Chemical Name	CAS No.	New Zealand - Priority List of
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		Hazardous Substances
No data available		
Montreal Protocol on Substa	nces that Deplete the Ozone Laye	er
Chemical Name	CAS No.	Montreal Protocol on Substances that Deplete the Ozone Layer
No data available		
Stockholm Convention on Pe	ersistent Organic Pollutants	,
Chemical Name	CAS No.	Stockholm Convention on Persistent Organic Pollutants
No data available		
Rotterdam Convention on the Pesticides in International Tr		ure for Certain Hazardous Chemicals and
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 Cor	ntrol of Transboundary Movement	s 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		
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Section 16: Other information	on	
Revision Date:	08 04 2022	
	08-04-2023	
Supercedes:	02-13-2023	
Revision Number:	5	

Reason for revision: New

Key abbreviations or acronyms used: CAS = Chemical Abstract Service



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DNEL= Derivative No Effect Level

EC= European Community

EINECS = European Inventory of Existing Chemical Substances

MSHA = Mine Safety Health Administration

NIOSH = National Institute of Occupational Safety & Health

OEL = Occupational Exposure Limit

PBT= Persistent, Bioaccumulative, Toxic

PNEC= Predicted No Effect Concentration

SCOEL= Scientific Committee on Occupational Exposure Limits

TLV = Threshold Limit Value

TWA= Time Weighted Average

vPvB= Very Persistent, Very Bioaccumulative

Wt.% = Weight Percent

For Information Contact: New Zealand: Ingredion ANZ Pty Ltd

Customer Service: +64-9-5820284 (Business Hours)

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