

N-DULGE 316 - 31470300

Section 1 - Identification

Product identifier:	
Product Number:	
Product Name:	N-DULGE 316 - 31470300
Other means of identification: Chemical family:	Starch
Recommended use of the chemical and Recommended use:	restrictions on 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 316 - 31470300

Classification of the hazardous chemical:

GHS Hazard Symbols:	No hazard symbols required
GHS Classification:	Not classified as hazardous in accordance with the Hazardous Substances and New Organisms Act
Signal Word:	No signal word needed.
Hazard Statements:	No Hazard Statement needed.
Precautionary Statements:	No Precautionary Statement needed.
Hazards not otherwise classified:	None known.

Section 3 - Composition/information on ingredients

Substance:

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

Mixture:

Not applicable

Section 4 - First-aid measures

Description of necessary first aid measures:

Inhalation:	This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.
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 exposure:	Possible physical irritant from dust particles. Potential for dust explosion. Contributes to effluent BOD. Not considered as hazardous.



N-DULGE 316 - 31470300

CO2, Dry Chemical, Foam, Water Fog
None known.
Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 62 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.045 joules.
Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment.
=

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. Prohibit smoking and open flames. Avoid sparks or other sources of static electricity.

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 a Safe storage conditions:	any incompatibilities: Store in a clean, dry, well ventilated warehouse away from odorous materials.	
Static Sensitivity:	Yes	
	No special sensitivity.	
Other precautions:	Avoid dispersing the powder in the air. Prevent buildup of powder on surfaces.	
	Mechanical handling of the powder on inadequately grounded equipment can result in static electrical discharges.	



N-DULGE 316 - 31470300

Materials to Avoid/Chemical	None known
Incompatibility:	

Section 8 - Exposure controls/Personal protection

Exposure control measures:

Chemical Name	New Zealand - Occupational Exposure Standards - TWA	New Zealand - Occupational Exposure Standards - STEL	New Zealand - Occupational Exposure Standards - CEIL	New Zealand - Biological Exposure Limit - BEL
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 exar Respiratory protection:	nple personal protective equipment (PPE): NIOSH approved dust mask. Dust masks should conform to EN 149.
Eye and face protection:	Wear safety glasses. Personal eye protection should conform to EN 166.
Skin protection:	Skin protection may be required depending on product temperature.
Gloves:	Gloves are recommended due to possible irritation., Gloves should conform to EN 374.
Other protective equipment:	Uniforms, coveralls, or a lab coat should be worn.
General hygiene conditions:	Wash before eating, drinking, or using toilet facilities.

Section 9 - Ph	ysical and	chemical	properties
----------------	------------	----------	------------

Appearance (physical state, colour etc.):			
Physical State:	Powder		
Colour:	White		
Odour:	Starch		
Odour Threshold:	Not available		
pH:	Not available		
pH in (1%) Solution:	Not available		
Melting point/freezing point:			
Melting Point:	Not available		
Freezing point:	Not available		
Initial boiling point and boiling range:	Not available		



N-DULGE 316 - 31470300

Flash Point:	Not applicable
Flammability (solid, gas):	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
Relative density:	No data available
Solubility:	Insoluble
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Kinematic viscosity:	Not available
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:	None known
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 in	formation
-------------------------------	-----------

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

Information on possible routes of exposure:	None known.
Target Organs Potentially Affected By Exposure:	None known.
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.



N-DULGE 316 - 31470300

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.
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.
Carcinogenicity:	No.
Reproductive Toxicity:	Based on available data, the GHS classification criteria are not met.
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 - Ecological information

Ecotoxicity:

Low, but has a BOD contribution.

Ecological Toxicity Data:

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

Persistence and degradability:	
--------------------------------	--

Bioaccumulative potential:

Mobility in soil:

Readily biodegradable.

Low (degrades too rapidly)

Unknown

None known.

Other adverse effects:

Page 6 of 9



N-DULGE 316 - 31470300

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

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

Chemical Name	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	



N-DULGE 316 - 31470300

New Zealand - Priority List of Hazardous Substances

Chemical Name	New Zealand - Priority List of Hazardous Substances
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		

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: Other information

Revision Date:	02-13-2023
Supercedes:	11-20-2022
Revision Number:	3



N-DULGE 316 - 31470300

Reason for revision:	New
Key abbreviations or acronyms used:	CAS = Chemical Abstract Service
	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)

Disclaimer:

Ingredion Incorporated and the Ingredion group of companies does not make any warranty or representation respecting the accuracy or completeness of the data. We assume no responsibility for any liability or damages relating thereto, or for advising you regarding the protection of your employees, customers, or others. You should make your own determination regarding the applicability of such information to, or the suitability of any products for your specific use. Ingredion Incorporated and the Ingredion group of companies expressly disclaims all warranties, expressed or implied, including but not limited to, warranties of merchantability, accuracy, fitness for use or for a particular purpose, and noninfringement. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to sales of products by Ingredion Incorporated and the Ingredion group of companies. The INGREDION mark and logo are trademarks of the Ingredion group of companies.