

1. Identification

Product identifier used on the label: N-DULGE(R) 2900

modified 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

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

SUPPLIER

Ingredion Incorporated 5 Westbrook Corporate Center Westchester, II. 60154 USA

EMERGENCY PHONES:

MEDICAL: 866-374-2659 (Health & Safety Call

Center-24 hours)

Corporate Emergency Phone: 708-551-2600

(24 hours)

SDS Requests/Customer Service: See phone

numbers in Section 16

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

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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

2. Hazard(s) identification

Classification of the chemical in accordance with WHS regulations:

GHS Hazard No hazard Symbols: 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.

Hazards not otherwise classified: None known.

3. Composition/information on ingredients

Chemical Name	Common name and synonyms	CAS#	%
Not classified as hazardous.			

4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

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Inhalation: Remove to fresh air. Get medical attention if irritation persists.

Eye Contact: If symptoms develop, obtain medical attention. Remove particles by

irrigating with eye wash solution or clean water, holding the eyelids apart.

Skin Contact: Wash skin with soap and water.

Ingestion: None required.

Most important symptoms/effects,

acute and delayed:

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

Indication of immediate medical attention and special treatment

needed, if necessary:

None known.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

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.

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 fire-fighters:

No special procedures are required.

6. Accidental release measures

Personal precautions, protective

equipment and emergency

procedures:

Use personal protective equipment as required.

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.

7. Handling and storage

Precautions for safe handling: Normal precautions for handling chemicals are applicable.

Conditions for safe storage, including any incompatibilities:

Safe storage conditions:

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Not available **Special Sensitivity:**

Sensitivity to Static Electricity: 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:

No data available

8. Exposure controls/personal protection

Control parameters:

Chemical component	Australia - Occupational Exposure Standards - TWAs	Australia - Occupational Exposure Standards - STELs	
Not listed.			

This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m3.

Appropriate engineering controls: No data available

Individual protection measures, such as personal protective equipment:

Respiratory Protection: No data available

Respirator Type(s): NIOSH approved dust mask. Eye protection: Safety glasses recommended.

Uniforms, coveralls, or a lab coat should be worn. Skin protection:

No data available Gloves:

Other protective equipment: No data available General hygiene conditions: No data available

9. Physical and chemical properties

Appearance (physical state, color etc.):

Physical state: Powder. Off-white Color: Odor: Starch

Odor Threshold: Not available

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Not available pH:

pH in (1%) Solution: Approximately 6

Melting point/freezing point (°C):

Not available **Melting Point (°C):**

Freezing point (°C): No data available No data available

Initial boiling point and boiling range

(°C):

No data available

Flash Point Method: Not available **Evaporation Rate:** Not applicable Flammability (solid, gas): Not available

Upper/lower flammability or explosive limits:

Upper flammability or explosive

limits:

Flash Point (°C):

Not available

Lower flammability or explosive

limits:

Not available

Vapor pressure: Not available Vapor density: Not available 1.5000000 Relative density: Solubility(ies): Slightly Soluble Partition coefficient: n-octanol/water: Not available Auto-ignition temperature (°C): No data available **Decomposition temperature (°C):** Not available Viscosity: Not available Heat of decomposition: Not available Not available Volatiles by weight:

Volatile Organic Chemicals: Not available Molecular formula: Not available Molecular weight: > 10000

VOC (as applied*- 2% by wt hardener-

less exempts and water):

Liquid density:

NAP or

Not available

Bulk Density: Not available

10. Stability and reactivity

Reactivity: Not expected to be reactive

Chemical stability: Stable

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Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid (e.g., static discharge, shock, or vibration): None known.

No data available Incompatible materials:

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

combustion products are carbon monoxide, carbon dioxide, nitrogen and

water.

11. Toxicological information

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

Information on the likely routes of exposure (inhalation, ingestion, skin and eve contact):

Eye Contact, Skin Contact, Inhalation, Ingestion

Target Organs Potentially Affected by

Exposure:

None known.

Chemical Interactions That Change

Toxicity:

None known.

Symptoms related to the physical,

chemical and toxicological

characteristics:

No data available

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

No data available Ingestion Irritation: **Ingestion Toxicity:** None known.

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

Unlikely to cause harmful effects under recommended conditions of

handling and use. Low order of toxicity.

Absorption: No data available No data available Inhalation Irritation:

No data available **Inhalation Toxicity:**

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

Chronic effects: None known.

Inhalation: No data available **Skin Contact:** No data available No data available **Skin Absorption:** No data available Ingestion:

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N-DULGE(R) 2900

Sensitization: None known.

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

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

Toxicity:

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

STOT-single exposure: Based on available data, the GHS classification criteria are not met.

STOT-repeated exposure: Not applicable.

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
No data available			

12. Ecological information

Ecotoxicity (aquatic and terrestrial,

where available):

No data available

Ecological Toxicity Data:

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

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil:

Other adverse effects (such as hazardous to the ozone layer):

Unknown

None known.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

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.

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14. Transport information

Carriage of dangerous goods by road (DOT), rail or inland waterways:

UN number: No data available **UN Proper shipping name:** Not applicable Transport hazard class(es): Not applicable Packing group, if applicable: Not applicable **DOT Basic description:** No data available

International carriage of dangerous goods by sea (IMDG/IMO):

UN number: No data available **UN Proper shipping name:** Not applicable Transport hazard class(es): Not applicable Packing group, if applicable: Not applicable

International carriage of dangerous goods by air (IATA): **UN number:** No data available **UN Proper shipping name:** Not Applicable Transport hazard class(es): Not applicable Packing group, if applicable: Not applicable Not available

Environmental hazards (e.g., Marine

pollutant (Yes/No)):

Not available

Transport in bulk (according to Annex II of MARPOL 73/78 and the

IBC Code):

Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within

or outside their premises:

Consult IMO regulations before transporting in bulk by ocean.

HAZCHEM Code: No data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

TSCA 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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Australia - National Pollutant Inventory (NPI) Substance List:

Chemical Name	CAS#	Australia - National Pollutant Inventory (NPI) Substance List
No data available		

Australia - Illicit Drug Precursors/Reagents:

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	_	Australia - Illicit	Australia - Illicit	Australia - Illicit
		Drug	Drug	Drug
Chemical Name	CAS#	Precursors/Reagent	Precursors/Reagent	Precursors/Reagent
		s - Category I	s - Category II	s - Category III
		Substances	Substances	Substances
No data available				

Australia - Narcotic Drugs Act:

Chemical Name	CAS#	Australia - Narcotic Drugs Act - Schedule I Drugs	Australia - Narcotic Drugs Act - Schedule II Drugs	Australia - Narcotic Drugs Act - Schedule III Drugs	Australia - Narcotic Drugs Act - Schedule IV Drugs
No data available					

Australia - Dangerous Goods Code - ADG:

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

Australia - The Chemical Weapons (Prohibition) Act (CWC):

Chemical Name	CAS#	Australia - The Chemical Weapons (Prohibition) Act (CWC) - Schedule 1	Australia - The Chemical Weapons (Prohibition) Act (CWC) - Schedule 2	Australia - The Chemical Weapons (Prohibition) Act (CWC) - Schedule 3
No data available				

16. Other information, including date of preparation or last revision.

Revision Date: 30-07-2021 Supercedes: 30-07-2019

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Revision Number: 4

Reason for revision: New

FOR INFORMATION CONTACT: For product information, contact:

National Starch LLC

National Starch Food Innovation

Customer Service: 1-800-859-8569 Technical Service Support: 1-800-743-6343

Other Info: None known.

Disclaimer: The attached data has been compiled from sources which Ingredion

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