

N-DULGE 316 - 31470300

SECTION 1: Identification of the substand	ce/mixture and of the company/undertaking
<b>1.1 Product identifier:</b> Product Number:	
Product Name:	N-DULGE 316 - 31470300
Other means of identification: Chemical family: REACH Registration Number:	Starch
1.2 Relevant identified uses of the subst Relevant identified use:	ance or mixture and uses advised against: 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
Authorised Representative for REACH Registration:	Service: See phone numbers in Section 16 No data available

2.1 Classification of the substance or mixture:

**Classification according to GHS** 

**SECTION 2: Hazards identification** 

Not classified as hazardous in accordance with GHS Regulation.



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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:

Substance Name	Concentration (% by weight)	CAS No.	REACH Registration Number
No hazardous components.			

### 3.2 Mixtures:

Not applicable

# SECTION 4: First aid measures

### 4.1 Description of 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.
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. Contributes to effluent BOD. Not considered as hazardous.
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:	CO2, Dry Chemical, Foam, Water Fog
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. 62 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.045 joules.
Hazardous combustion products:	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
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:

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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. Prohibit smoking and open flames. Avoid sparks or other sources of static electricity.
6.4 Reference to other sections:	

## 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 Safe storage conditions:	ng 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.
Materials to Avoid/Chemical	None known



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Incompatibility:

# 7.3 Specific end use(s):

Food products

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters:

	India -	India -	India -
Outratanaa Nama	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:		
Eye/face protection:	Wear safety glasses. Personal eye protection should conform to EN 166.	
Skin protection:	Skin protection may be required depending on product temperature.	
Hand protection:	Gloves are recommended due to possible irritation., Gloves should conform to EN 374.	
Respiratory protection:	NIOSH approved dust mask. Dust masks should conform to EN 149.	
Thermal hazards:	Not available	
Environmental exposure controls:		

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties: Physical state: Powder White Colour: 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
Boiling point or initial boiling point and boiling range:	Not available
Flash point:	Not applicable
Evaporation Rate:	Not applicable
Flammability:	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
Density and/or relative density:	No data available
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Volatiles:	None
Volatile Organic Chemicals:	Not available
Kinematic viscosity:	Not available
Particle characteristics:	Not applicable
9.2 Other information:	
Molecular Weight:	Not available

# 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 known
10.5 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:



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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.
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.
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:

Low, but has a BOD contribution.



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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 degradal	oility:	Readily	biodegradable.		
12.3 Bioaccumulative potentia	l:	Low (de	grades too rapidly)		
12.4 Mobility in soil:		Unknow	'n		
12.5 Results of PBT and vPvB assessment:					
12.6 Endocrine disrupting pro	perties:	None kr	nown.		
12.7 Other adverse effects:		None kr	nown.		
SECTION 13: Disposal conside	rations				
13.1 Waste treatment methods	:	Disposa	al should be in accordan	ice with local, state or	national legislation.
Empty container warnings:		Empty o	containers may contain	product residue; follow	SDS and label

# SECTION 14: Transport Information

DOT Classification:	Not regulated
14.1 UN number:	Not applicable
14.2 UN proper shipping name:	Not applicable
14.3 Transport hazard class(es):	Not applicable
14.4 Packing group:	Not applicable
Toxic Inhalation Hazard Zone:	No data available
14.5. Environmental hazards:	No data available
14.6 Maritime transport in bulk according to IMO instruments:	No data available
14.7 Special precautions for user:	Consult IMO regulations before transporting in bulk by ocean.

warnings even after they have been emptied.

### 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.

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:

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

### SECTION 16: Other information

Revision Date:	11-20-2022
Supercedes:	11-08-2022
Revision Number:	2
Reason for revision:	New
For Information Contact	India: INGREDION INDIA PVT LTD
For Information Contact	
For Information Contact Hazard statements:	INGREDION INDIA PVT LTD

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