

1. Identification

Product identifier: NOVATION(R) Lumina 0100

food starch

Other means of identification:

Chemical family: Starch

Recommended use of chemical and restrictions on use:

Recommended use: Food products Restrictions on use: Not Available

Supplier's details (including name, address, and telephone number etc).:

SUPPLIER

Ingredion Singapore Pte Ltd.

21 Biopolis Road

#05-21/27 Nucleos

Singapore 138567

Tel:+65 6872 6006 (business hours)

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

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Print date: 02-August-2021 Supercedes: 27-06-2019



2. Hazards identification

GHS Classification of the substance or mixture:

Classification according to Not classified by GHS criteria

Regulation: SS 586: Part 2: 2014:

GHS Label elements:

GHS label elements, including precautionary statements:

No hazard pictograms: symbols required

Signal Word: No signal word needed.

Hazard Statements: No Hazard Statement needed.

Precautionary Statements: No Precautionary Statement needed.

Other hazards which do not result in

classification:

None known.

3. Composition/information on ingredients

Substances:

Not applicable

Mixtures:

Chemical Name	CAS No.	%
This product is not classified as hazardous		

4. First-aid measures

Description of necessary measures:

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. Self protection of the first aider: No data available

Most important symptoms/effects,

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

acute and delayed:

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Indication of immediate medical attention and special treatment

needed, if necessary:

None known.

5. Fire-fighting measures

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. 70 mg/l. Minimum energy to ignite cloud

by electrical spark- approx. 0.06 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:

Non-emergency personnel: Non-emergency personnel should be kept clear of the area

Emergency responders: Use personal protective equipment as required.

Environmental precautions: No data available Methods and material for containment and cleaning up:

Small spills: Refer to information provided for large spills

Large spills: 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.

Reference to other sections: See Section 8 for appropriate personal protective equipment. See

Sections 2 and 7 for additional information on hazards and precautionary

measures.

7. Handling and storage

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

Conditions for safe storage, including any incompatibilities:

Conditions for safe storage:

Special Sensitivity: Not available

Sensitivity to Static Electricity: Yes

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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: None known Materials to Avoid/Chemical No data available

Incompatibility:

Specific end use(s):

Food products

8. Exposure controls/personal protection

Control parameters/ Occupational exposure limits or biological limit values:

Occupational Exposure limit values:

Chemical Name	Singapore - Occupational Exposure Limits - STELs	Singapore - Biological Exposure Limits
Not listed.		

Exposure controls:

No data available Appropriate engineering controls:

Individual protection measures, such as personal protective equipment:

Eye and face protection: Safety glasses recommended.

Skin Protection:

Hand protection: No data available

Other skin protection: Not applicable. Uniforms, coveralls, or a lab coat should be worn.

Respiratory Protection: No data available

Respirator Type(s): NIOSH approved dust mask.

Other Protective Equipment: Wash before eating, drinking, or using toilet facilities.

General Hygiene Conditions: Not normally required.

Thermal Hazards: Not available

Environmental exposure controls: Avoid runoff into storm sewers and ditches that lead to waterways.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Appearance (physical state, color

etc.):

Powder.

White Colour: Odour: Starch

Odour threshold: Not available

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pH: Not available pH in (1%) Solution: Approximately 6

Melting point / freezing point (°C):

Melting point (°C): Not available

Freezing point (°C): No data available

Initial boiling point and boiling range

(°C):

No data available

Flash point (°C):

Flash point method:

Not available

Evaporation rate:

Not applicable

Not available

Not available

Upper/lower flammability or explosive limits:

Upper flammable or explosive limit,

% in air:

Not available

Lower flammable or explosive limit, Not available

% in air:

Vapour pressure:Not availableVapour density:Not availableRelative density:1.5000000Solubility(ies):Insoluble

Solubility(ies): Insoluble

Partition coefficient: n-octanol/water: Not available

Auto-ignition temperature (°C): No data available

Decomposition temperature (°C): Not available

Viscosity: Not available

Other information:

Heat of decomposition:

Volatiles by weight:

Not available

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

less exempts and water):

NAP or

Bulk density: Not available

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

Incompatible materials: No data available

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

combustion products are carbon monoxide, carbon dioxide, nitrogen and

water.

11. Toxicological information

Information on toxicological effects:

Acute toxicity:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
No data available			

Skin corrosion/irritation:

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.

Serious eye damage/irritation:

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

Respiratory or 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:

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

Reproductive and Developmental Toxicity:

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:

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

Aspiration hazard:

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

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12. Ecological information

Toxicity: No data available

Ecological Toxicity Data:

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

Persistence and degradability:

No data available Bioaccumulative potential:

Mobility in soil: Unknown Other adverse effects: None known. Additional information: No data available

13. Disposal considerations

Waste treatment methods:

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.

14. Transport information

International carriage of dangerous goods by road (ADR), rail or inland waterways:

UN number: No data available **UN proper shipping name:** Not applicable Transport hazard class(es): Not Applicable Packing group: Not applicable

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: Not applicable

International carriage of dangerous goods by air (IATA): No data available **UN number: UN proper shipping name:** Not Applicable

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Transport hazard class(es):

Packing group:

Environmental hazards (e.g.: Marine

Not applicable

Not available

pollutant (Yes/No)):

Special precautions for user: Consult IMO regulations before transporting in bulk by ocean.

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

IBC Code):

Not available

15. Regulatory information

TSCA This product is manufactured in compliance with all provisions of the Toxic

Substances Control Act, 15 U.S.C. 2601 et. seq.

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

Chemical Name	CAS No	Singapore Arms and Explosives Act	Singapore List of Hazardous Substances	Singapore Chemical Weapons	Singapore Worksplace Safety Act	Singapore Environment al Protection and Management Act
None of the components are listed on this regulatory list						

Chemical Inventory Status:

Chemical Name	CAS No	AICS	DSL	IECSC	ENCS	TSCA Status	EINECS	PICCS
None of the components are listed on this regulatory list								

Singapore - Ozone Depleting Substances:

Chemical Name	CAS No	Annex A - Group	Annex A - Group	Annex B - Group	Annex B - Group	Annex B - Group	Annex C - Group	Annex C - Group	Annex C - Group	Annex E
		Cicap	Cicap	Croup	Croup	Cicap	Croup	Croup	Cicap	

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	I	II	I	II	III	I	II	III	
None of the component s are listed on this regulatory list									

Singapore - HAZCHEM Emergency Action Code:

Chemical Name	CAS No	Singapore - HAZCHEM Emergency Action Code
None of the components are listed on this regulatory list		

16. Other information

Revision Date: 02-08-2021 27-06-2019 Supercedes:

Revision Number: Reason for revision: New

FOR INFORMATION CONTACT: Singapore:

Ingredion Singapore Pte Ltd

Customer Service: +65 6872 6006

Abbreviations and acronyms: 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

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vPvB= Very Persistent, Very Bioaccumulative Wt.% = Weight Percent

Prevention:

Disclaimer:

No Precautionary Statement needed.

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