

NATIONAL 77-1760

1. Identification

Product identifier:

Product Number: 32566101

Product Name: NATIONAL 77-1760

Other means of identification:

Chemical family: Modified starch

Recommended use of chemical and restrictions on use:

Recommended use: Food products
Restrictions on use: Not Available

Supplier's details: Ingredion Singapore Pte Ltd.

21 Biopolis Road #05-21/27 Nucleos Singapore 138567

Tel:+65 6872 6006 (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



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Classification according to Regulation: SS 586: Part 2: 2014:

Hazard pictograms: No hazard symbols required

GHS Classification of the substance

or mixture:

Not classified by GHS criteria

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

Chemical Name	CAS No.	Concentration (% by weight)
Not classified as hazardous.		

4. First aid measures

Description of necessary measures:

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

Remove particles by irrigating with eye wash solution or clean water. Eve contact:

holding the eyelids apart. If symptoms develop, obtain medical attention.

Skin Contact: Wash skin with soap and water.

Ingestion: None required.

Description of acute and delayed

symptoms/effects:

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

Indication of immediate medical

attention and special treatment

needed, if necessary:

No further first aid information is available.

5. Fire fighting measures



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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. 62 mg/l. Minimum energy to ignite cloud

by electrical spark- approx. 0.045 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 for fire-

fighters:

No special procedures are required.

6. Accidental release measures

Personal precautions, protective equipment, emergency procedures:

Use personal protective equipment as required.

Environmental precautions:No data available

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.

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:

Conditions for safe storage: Keep container closed when not in use.

Static Sensitivity: 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:

None known

8. Exposure controls/personal protection



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Control parameters/ Occupational exposure limits or biological limit values:

Chemical Name	Singapore - Occupational Exposure Limits - PELs	Singapore - Occupational Exposure Limits - STELs	Singapore - Biological Exposure Limits
No data available			

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

Appropriate engineering controls: General.

Individual protection measures:

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.

9. Physical and chemical properties

Appearance (physical state, colour etc.):

Pure Substance or Mixture: Pure
Physical State: Powder
Colour: White
Odour: Starch

Odour Threshold:

pH:

Not available

Not available

PH in (1%) Solution:

Approximately 6

Melting point/freezing point:

Melting Point:

Freezing point:

Initial boiling point and boiling range:

Flash Point:

Evaporation Rate:

Not available

Not available

Not applicable

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

Upper flammability or explosive limits: Not available



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Lower flammability or explosive limits: Not available Not available Vapour pressure: Not available Vapour density:

1.5 Relative density:

Solubility: Soluble in water Partition coefficient: n-octanol/water: Not available **Auto-ignition temperature:** Not available Not available **Decomposition temperature: Viscosity:** Not applicable

Volatiles: None

Volatile Organic Chemicals: Not applicable

10. Stability and reactivity

Reactivity: Not expected to be reactive.

Chemical stability:

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: None known Incompatible materials: None known

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

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 possible routes of

exposure:

Ingestion, Inhalation, Skin Contact, Eye Contact

Target Organs Potentially Affected By

Exposure:

Not applicable.

Symptoms related to physical,

chemical and toxicological

characteristics:

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:

Based on available data, the GHS classification criteria are not met. Ingestion Toxicity: Acute toxicity - Dermal: Based on available data, the GHS classification criteria are not met.

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

Skin corrosion/irritation: Low order of toxicity. 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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Reproductive Toxicity: No.

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

-repeated exposure:

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.			

12. Ecological information

Eco-toxicity: 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: Unknown

Other adverse effects: None known.



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13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal:

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

14. Transport information

DOT Classification: Not regulated **UN number:** Not applicable Proper shipping name or technical

name:

Not applicable

Transport hazard class: Not applicable Packing group: Not applicable **Toxic Inhalation Hazard Zone:** No data available

Environmental hazards for transport

purposes:

No data available

Transport in bulk (according to Annex

II of MARPOL 73/78 and the IBC

Code):

No data available

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

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.

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		



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Rotterdam	Convention	on the Prio	r Informed	Consent	Procedure 1	for Certaiı	า Hazardous	Chemicals	and
Pesticides	in Internatio	nal 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		

Singapore List of Hazardous Substances

Chemical Name	CAS No.	Singapore List of Hazardous Substances
No data available		

Singapore - HAZCHEM Emergency Action Code(Commonwealth)

Chemical Name	CAS No.	Singapore - HAZCHEM Emergency Action Code(Commonwealth)
No data available		

16. Other information

Revision Date: 08-04-2023 **Supercedes:** 02-24-2023

Revision Number: 5
Reason for revision: New

For Information Contact: Singapore:

Ingredion Singapore Pte Ltd.

Customer Service: +65 6872 6006

Hazard Statements: No Hazard Statement needed.

Precautionary Statements: No Precautionary Statement needed.

Disclaimer:



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