

NATIONAL M1

1. Identification of the substance or mixture and of the supplier

GHS product identifier:

Stock Number: 10520302
Product Name: NATIONAL M1

Other means of identification:

Chemical family: Carbohydrate

Recommendations and restrictions on use of the substance or mixture:

Recommended use: Food products
Restrictions on use: Not Available

Supplier's details (i.e. name, address,

phone number(s)):

Ingredion (Thailand) Co., Ltd

40/14 Moo 12, Bangna-Trad Road, Bangplee, Samutprakarn 10540

Thailand

Tel: +662-725-0200 (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

2. Hazards identification

Classification of the chemical in accordance with system of Hazardous Substances B.E. 2555:



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GHS Hazard Symbols:

No hazard symbols required

GHS Classification of the substance or mixture, and national or regional

information:

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

GHS classification:

None known.

3. Composition/information on ingredients

Substance:

| Chemical Name | CAS Number | Concentration (% by weight) |
|--------------------------|------------|-----------------------------|
| No hazardous components. | | |
| | | |

Mixture:

Not applicable

4. First-aid measures

Description of necessary first-aid measures divided by relevant routes of exposure i.e. inhalation, skin, eye, and ingestion:

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

Eye Contact: 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:

No further first aid information is available.



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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 e.g. hazardous combustion products that form when the substance or mixture burns:

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 and precautions for fire-fighters:

Do not enter fire area without proper protection including self- contained

breathing apparatus and full protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures:

Use personal protective equipment as required.

Environmental precautions: Not 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.

7. Handling and storage

Precaution for safe handling and

storage:

As with all chemicals, good industrial hygiene practices should be followed

when handling this material.

Conditions for safe storage, including any incompatibilities:

Safe storage conditions: Keep container closed when not in use.

Static Sensitivity: Yes

Other precautions: Avoid dispersing the powder in the air. Prevent buildup of powder on

surfaces.

Materials to Avoid/Chemical

Incompatibility:

None known



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8. Exposure controls/personal protection

Control parameters e.g. occupational exposure limit values, biological limit values:

| Chemical Name | Thailand - Occupational Exposure Limits - | Exposure Limits - | Thailand - Occupational Exposure Limits - |
|-------------------|-------------------------------------------|-------------------|-------------------------------------------|
| | TWA's | STEL's | CEIL's |
| 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 e.g. personal protective equipment:

Respiratory Protection:

NIOSH approved dust mask.

Eye protection: Employee must wear splash-proof or dust-resistant safety goggles and a

faceshield to prevent contact with this substance.

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, color etc.):

Pure Substance or Mixture:
Physical State:
Color:
White
Odor:
Starch

Odor Threshold:

pH:

Not available

Not available

PH in (1%) Solution:

Approximately 4.5

Melting point/freezing point:

Melting Point:

Freezing point:

Not available

Not available

Initial boiling point and boiling range:

Flash Point:

Evaporation Rate:

Not applicable

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 Vapor pressure: Not available Vapor density: Not available

Relative density: 1.5

Solubility: Slightly soluble

Partition coefficient: n-octanol/water: Not available

Heat of Decomposition: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Not applicable

Volatiles: None

Volatile Organic Chemicals: Not applicable

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.

11. Toxicological information

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

Information of the likely routes of

exposure:

Eye Contact, Skin Contact, Inhalation, Ingestion

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.

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

Acute toxicity:

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



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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. 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)

-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. | | | |

12. Ecological information

Toxicity (aquatic and terrestrial): No information available.

Ecological Toxicity Data:

| Chemical Name | CAS Number | 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:UnknownOther adverse effects:None known.



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13. Disposal considerations

Description on waste residue and safety transfer method, including appropriate disposal methods of waste residues and contaminated packaging:

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

14. Transport information

UN Transport classification: Not regulated **UN Number:** Not applicable Proper shipping name or technical Not applicable

name:

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

Environmental hazards (e.g., Marine

pollutant (Yes/No)):

No data available

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

Code):

No data available

Special precautions for users, which a user needs to be aware of or needs to comply with in connection with transport either inside or outside the

business site:

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. seg.

FDA 21CFR184.1444

Thailand - Toxic Chemical Substance List

| Chemical Name | CAS Number | Thailand - Toxic Chemical Substance List |
|-------------------|------------|------------------------------------------|
| No data available | | |

Thailand - Priority Management Chemical List



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| Chemical Name | CAS Number | Thailand - Priority Management Chemical List |
|-------------------|------------|----------------------------------------------|
| No data available | | |

Thailand - Thailand Explosive Substance and Precursors

| Chemical Name | CAS Number | Thailand - Thailand Explosive Substance and Precursors |
|-------------------|------------|--------------------------------------------------------|
| No data available | | |

Montreal Protocol on Substances that Deplete the Ozone Layer,

| Chemical Name | CAS Number | Montreal Protocol on Substances that Deplete the Ozone Layer, |
|-------------------|------------|---------------------------------------------------------------|
| No data available | | |

Stockholm Convention on Persistent Organic Pollutants

| Chemical Name | CAS Number | 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 Number | 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 Number | Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal. |
|-------------------|------------|----------------------------------------------------------------------------------------------------|
| No data available | | |

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

 Revision Date:
 12-09-2022

 Supercedes:
 11-21-2022

Revision Number: 4
Reason for revision: New

For Information Contact Thailand:



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Ingredion (Thailand) Co., Ltd Customer Service: +66-2-725-0200

Disclaimer:

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