



Safety Data Sheet

NATIONAL 912

SECTION 1. Identification of the hazardous chemical or mixture and of the supplier or manufacturer

Name of the dangerous chemical or mixture:

Product number: 06590100
Product name: NATIONAL 912

Other means of identification:

Chemical family: Modified starch

Recommended use of the hazardous chemical or mixture, and restrictions of use:

Recommended use: Food use
Restrictions on use: Not Available

Details of the supplier or manufacturer:

Ingredion Mexico, S.A. of C.V.
Corporate Andares Tower Paseo
Blvd. Puerta de Hierro #5153, Floor 22
Col. Fracc. Plaza Andares, C.P. 45116, Zapopan, Jalisco
Telephone: +52 (33) 3884-9000 (business hours)
Emergency Phone: 800-681-9531 (CHEMTREC) +1-703-741-5970
(Global CHEMTREC)

Phone number in case of emergency:

SECTION 2. Identification of the hazards

Classification of the hazardous chemical or mixture, according to the GHS:

GHS Classification: Not classified as hazardous in accordance with NOM-018-STPS-2015

Elements of signaling, including precautionary advice and precautionary pictograms:

Symbols:

No hazard symbols required

Word of warning:

No signal word needed.

Indication of danger:

No Hazard Statement needed.

Precautionary Statements:

No Precautionary Statement needed.

Other hazards that do not contribute to the classification:

None known.

SECTION 3. Composition / information on the components

For substances:

Not applicable

For mixtures:

| Chemical identity of the substance | CAS number | Concentration or concentration ranges |
|--|------------|---------------------------------------|
| None classified as hazardous under the GHS regulations | | |

SECTION 4. First aid

Description of first aid:

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| 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. If symptoms develop, obtain medical attention. |
| Skin contact: | Wash skin with soap and water. |
| Ingestion: | None required. |

Symptoms and most important effects, acute and chronic: Possible physical irritant from dust particles. Potential for dust explosion.

Indication of the need to receive immediate medical attention and, where appropriate, special treatment: No further first aid information is available.

SECTION 5. Fire-fighting measures

Appropriate extinguishing media:

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| Suitable extinguishing media: | Dry Chemical, CO2, Water Fog, Foam |
| Unsuitable extinguishing media: | None known. |

Specific hazards of hazardous chemical substances or mixtures: 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 measures to be followed by fire fighting groups: No special procedures are required.

SECTION 6. Measures to be taken in case of accidental spillage or accidental leakage

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment as required.

Precautions relating to the environment: Not available

Methods and materials for the Normal precautions for "nuisance dust" should be observed. Avoid

containment and cleaning of spills or leaks: prolonged inhalation of dust. Sweep up or vacuum up and place in suitable container for disposal.

SECTION 7. Handling and storage

Precautions that must be taken to ensure safe handling: As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Conditions of safe storage, including any incompatibility:

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

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: None known

SECTION 8. Exposure controls / personal protection

Control parameters:

| Chemical identity of the substance | Mexico - Occupational Exposure Limits - TWAs (LMPE-PPTs) | Mexico - Occupational Exposure Limits - STELs (LMPE-CTs) | Mexico - Occupational Exposure Limits - Ceilings (LMPE-Pico) | Mexico - Occupational Exposure Limits - BEIs (IBE) |
|------------------------------------|--|--|--|--|
| No data available | | | | |

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

Appropriate technical controls: General.

Individual protection measures, such as personal protective equipment, PPE:

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.

Respiratory Protection: NIOSH approved dust mask.

Thermal hazards: Not available

SECTION 9. Physical and chemical properties

Appearance (physical state, color, etc.):

Pure Substance or Mixture: Pure

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| Physical state: | Powder |
| Color: | White |
| Odor: | Starch |
| Odor threshold: | Not available |
| Hydrogen potential, pH: | Not available |
| pH in (1%) Solution: | Approximately 7 |
| Melting point / freezing point: | |
| Melting point: | Not available |
| Freezing point: | Not available |
| Initial point and boiling range: | Not available |
| Flash point: | Not applicable |
| Evaporation rate: | Not applicable |
| Flammability (solid / gas): | No |
| Upper/lower flammability or explosive limits: | |
| Upper limit of flammability or explosiveness: | Not available |
| Lower limit of flammability or explosiveness: | Not available |
| Vapor pressure: | Not available |
| Vapor density: | Not available |
| Relative density: | 1.5 |
| Solubility(s): | Insoluble |
| N-octanol / water partition coefficient: | Not available |
| Spontaneous ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Viscosity: | Not applicable |
| Volatiles: | None |
| Volatile Organic Chemicals (VOC): | Not applicable |
| Other relevant information: | |
| Molecular weight: | > 10000 |

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| SECTION 10. Stability and reactivity |
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| Reactivity: | Not expected to be reactive. |
| Chemical stability: | Stable |
| Possibility of dangerous reactions: | Hazardous polymerization will not occur. |
| Conditions to be avoided: | 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.

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| SECTION 11. Toxicological information |
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Description of the various toxicological (health) effects and the available data used to identify those effects:

Information about the probable income routes: 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.

Immediate and delayed effects, as well as chronic effects produced by a short or long term exposure:

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

Eye Damage / Irritation: Based on available data, the GHS classification criteria are not met.

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

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

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

Reproductive and Developmental Toxicity: No.

Carcinogenicity: There are no known adverse effects.

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.

Numerical measures of toxicity (such as estimates of acute toxicity):

| Chemical identity of the substance | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|-----------|-------------|-----------------|
| There is no known toxicity data available for the components or the product | | | |

Interactive effects: No data available

SECTION 12. Ecotoxicological information

Toxicity: No information available.

Ecological Toxicity Data:

| Chemical identity of the substance | CAS number | Aquatic LC50 Fish | Aquatic ERC50 Algae | Aquatic EC50 Crustacea |
|------------------------------------|------------|-------------------|---------------------|------------------------|
| No data available | | | | |

Persistence and degradability: No data available

Bioaccumulation potential: No data available

Mobility in soil: Unknown

Other adverse effects: None known.

SECTION 13. Information regarding the disposal of the products

Description of the waste and information on how to handle it safely and its disposal methods , including the disposal of contaminated containers: 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.

SECTION 14. Transport information

DOT Classification: Not regulated

UN number: Not applicable

Official transportation designation of the United Nations: Not applicable

Class (s) of transportation hazards: Not applicable

Packing group, if applicable: Not applicable

Toxic Inhalation Hazard Zone: No data available

Environmental risks: No data available

Transport in bulk according to Annex II of MARPOL 73/78 and to the IBC Code (IBC).: No data available

Special precautions for the user: Consulte las normas IMO antes de transporte a granel por mar.

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| SECTION 15. Regulatory information |
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Specific provisions on safety, health and the environment for hazardous chemical substances or mixture in question:

Mexico - Pollutant Release and Transfer Register

| Chemical identity of the substance | CAS number | Reporting Emissions - Threshold Quantities | Reporting Emissions for Manufacturing, Process or Use -Threshold Quantities |
|------------------------------------|------------|--|---|
| No data available | | | |

Mexico - National Inventory of Chemical Substances (INSQ).

| Chemical identity of the substance | CAS number | Mexico - National Inventory of Chemical Substances (INSQ). |
|------------------------------------|------------|--|
| No data available | | |

Montreal Protocol on Substances that Deplete the Ozone Layer

| Chemical identity of the substance | CAS number | Montreal Protocol on Substances that Deplete the Ozone Layer |
|------------------------------------|------------|--|
| No data available | | |

Stockholm Convention on Persistent Organic Pollutants

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

SECTION 16. Other information including those related to the preparation and updating of the safety data sheets

Date of SDS preparation or last revision (mm-dd-yyyy): 03-27-2024

For product information, contact Ingredion Mexico, S.A. of C.V.
Customer Service: +52 (33) 3884-9000

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