



SAFETY DATA SHEET

NATIONAL 77-1760

1. Identification

Product identifier used on the label:

PRODUCT NUMBER (NEW): 32566101
PRODUCT NUMBER (OLD): 050-3107
PRODUCT NAME: NATIONAL 77-1760

Other means of identification

Chemical Family: Modified Starch

Recommended use of the chemical and restrictions on use

Recommended use: food starch
Restrictions on uses: Not Available

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Ingredion Incorporated
5 Westbrook Corporate Center
Westchester, IL. 60154, USA
Phone: 708-551-2600 (business hours)
MEDICAL: 1-866-374-2659 (Health & Safety Call Center - 24 hours)
TRANSPORT: 1-800-424-9400 (CHEMTREC - 24 hours)

Emergency phone number:

2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200

GHS Classification: Combustible Dust Category 1
GHS Signal Word: Warning
GHS Hazard Statements: May form combustible dust concentrations in air.
Hazards not otherwise classified: No data available

3. Composition/information on ingredients

Chemical Name:	CAS number and other unique identifiers	% (or range) of ingredient
None classified as hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).		

4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion

Inhalation: Remove patient from exposure.

Eyes:	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.
Most important symptoms/effects, acute and delayed:	Possible physical irritant from dust particles. Potential for dust explosion. Contributes to effluent BOD.
Indication of immediate medical attention and special treatment needed, if necessary:	Not considered as hazardous. No further first aid information is available.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media:	CO2; Dry Chemical; Foam; Water Fog
Unsuitable extinguishing media:	None known.
Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):	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.
Special protective equipment and precautions for fire-fighters:	No special procedures are required.

6. Accidental release measures

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

Precautions for safe handling: Conditions for safe storage, including any incompatibilities	Store in a clean, dry, well ventilated warehouse away from odorous materials. Ambient.
Special Sensitivity:	No special sensitivity.
:	No
:	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	None known

Incompatibility:

8. Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Chemical Component	OSHA PEL	ACGIH TLV-TWA	AIHA 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

Ventilation Requirements: General.

Individual protection measures, such as personal protective equipment.:

- Eye Protection:** Wear safety glasses. Personal eye protection should conform to EN 166.
- Skin 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.
- Other Protective Equipment:** Not available
- General Hygiene Conditions:** Wash before eating, drinking, or using toilet facilities.
- Change/Removal of Clothing:** Uniforms, coveralls, or a lab coat should be worn.

9. Physical and chemical properties

- Appearance (physical state):** Powder.
- Color:** White
- Odor:** Starch
- Odor threshold:** Not available
- pH:** Not available
- Melting Point/Freezing Point (°C):** Not available
- Initial Boiling Point and Boiling Range (°C):** Not available
- Flash Point (°C):** Not applicable
- Evaporation Rate:** Not applicable
- Flammability (solid, gas):** No
- Upper Flammable/Explosive Limit:** Not applicable
- Lower Flammable/Explosive Limit:** Not applicable
- Vapor Pressure:** Not applicable
- Vapor Density:** Not applicable
- Relative Density:** Not available



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Specific Gravity	No data available
Solubility(ies) in Water:	Soluble in water
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition Temperature (°C):	Not available
Decomposition Temperature:	Not determined.
Viscosity:	Not applicable
Volatiles	None
Volatile Organic Compounds	Not available

10. Stability and reactivity

Reactivity:	Not expected to be reactive
Chemical stability:	Material is stable under normal temperatures and pressures.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid (e.g., static discharge, shock, or vibration):	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

Symptoms related to the physical, chemical and toxicological characteristics:	No data available
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Delayed and immediate effects and also chronic effects from short- and long-term exposure:

Acute (Short Term) Effects of Exposure

Effects of Acute Exposure	Not established.
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Chronic (Long Term) Effects of Exposure

Effects of Chronic Exposure	This product is considered as being non-toxic. Use of good industrial hygiene practices is recommended.
Target Organs	None known.

Numerical measures of toxicity (such as acute toxicity estimates)

No data available



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(% by weight)

Contains no substances at or above the reporting threshold under Section 313.

CALIFORNIA PROPOSITION 65

WARNING: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.

Unless a concentration is specified in Section 2 of the MSDS, the below chemical/s are present in trace amounts.

Component	CAS NUMBER
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None reportable.

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

HMIS® Hazard Ratings

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs by OSHA's 29 CFR 1910.1200, we choose to provide them as a service to our customers using HMIS®. These ratings are to be used only with a fully implemented HMIS® program. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered. NPCA recommends that employers must determine appropriate PPE for the actual conditions under which this product is used in their workplace. For information on PPE codes, consult the HMIS® Implementation Manual. When two ratings are provided for Health, the first represents the material 'as supplied', and the second represents the material 'in use'. * = chronic health hazard HMIS® is a registered trademark of the National Paint and Coatings Association (NPCA).

Health

Flammability

Reactivity

SDS DATE

23-July-2021

FOR INFORMATION CONTACT:

For product information, contact:

Ingredion Incorporated

Customer Service: 1-800-713-0208

CHANGES SINCE PREVIOUS ISSUE

Section 1 Section 16

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