

## 1. Identification

**Product identifier used on the label:**

Product number: 32300300  
Product name: NOVATION INDULGE 3920 - 32300300

**Other means of identification:**

Chemical family: Starch

**Recommended use of the chemical and restrictions on use:**

Recommended use: food starch  
Restrictions on use: 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)

**Emergency phone number:**

MEDICAL: 1-866-374-2659 (Health & Safety Call Center - 24 hours)  
TRANSPORT: 1-800-424-9400 (CHEMTREC - 24 hours)

## 2. Hazard(s) identification

**Classification of the chemical in accordance with paragraph (d) of §1910.1200:****GHS Hazard Symbols:**

No hazard symbols required

**GHS Classification:**

Hazardous to the aquatic environment - Acute Category 3

**Signal Word:**

No signal word needed.

**Hazard Statements:****Precautionary Statements:**

**Prevention:** Avoid release to the environment  
**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

**Hazards not otherwise classified:**

None known.

## 3. Composition/information on ingredients

:  
Not applicable

:

Chemical Name		CAS #	Concentration (% by weight)
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:	This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.
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.

**Most important symptoms/effects, acute and delayed:**

Possible physical irritant from dust particles. Potential for dust explosion. Contributes to effluent BOD. Not considered as hazardous.

:

No data available

**Indication of immediate medical attention and special treatment needed, if necessary:**

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:**

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.

:

No data 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. Prohibit smoking and open flames. Avoid sparks or other sources of static electricity.

## 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:**

Safe storage conditions:

Store in a clean, dry, well ventilated warehouse away from odorous materials.

Sensitivity to Static Electricity:

Yes

No special sensitivity.

Other precautions:

Avoid dispersing the powder in the air. Prevent buildup of powder on surfaces.

Mechanical handling of the powder on inadequately grounded equipment can result in static electrical discharges.

Materials to Avoid/Chemical Incompatibility:

None known

## 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 Name			
No data available			

This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m<sup>3</sup>.

**Appropriate engineering controls:** General.

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

<b>Respiratory Protection:</b>	NIOSH approved dust mask. Dust masks should conform to EN 149.
<b>Eye protection:</b>	Wear safety glasses. Personal eye protection should conform to EN 166.
<b>Skin protection:</b>	Skin protection may be required depending on product temperature.
<b>Gloves:</b>	Gloves are recommended due to possible irritation., Gloves should conform to EN 374.
<b>Other protective equipment:</b>	Uniforms, coveralls, or a lab coat should be worn.
<b>General hygiene conditions:</b>	Wash before eating, drinking, or using toilet facilities.

## 9. Physical and chemical properties

### Appearance (physical state, color etc.):

Physical state: Powder

Color: White

**Odor:** Starch

**Odor Threshold:** Not available

**pH:** Not available 6

**pH in (1%) Solution:** Not available

### Melting point/freezing point:

Melting Point (°C): Not available

Freezing point (°C): Not available

**Initial boiling point and boiling range:** Not available

**Flash Point:** Not applicable

**Flammability (solid, gas):** No

### Upper/lower flammability or explosive limits:

Upper flammability or explosive limits: Not available

Lower flammability or explosive limits: Not available

**Vapor pressure:** Not available

**Vapor density:** Not available

**Relative density:** No data available

**Solubility(ies):** Insoluble

**Partition coefficient: n-octanol/water:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity:** Not available

## 10. Stability and reactivity

**Reactivity:** Not expected to be reactive.

<b>Chemical stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid (e.g., static discharge, shock, or vibration):</b>	None known
<b>Incompatible materials:</b>	None known
<b>Hazardous decomposition products:</b>	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:**

<b>Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):</b>	None known.
<b>Target Organs Potentially Affected by Exposure:</b>	None known.
<b>Symptoms related to the physical, chemical and toxicological characteristics:</b>	No data available
<b>Toxic effects:</b>	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:

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

**Skin Corrosion / Irritation:** Wash skin with soap and water.

**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.

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

**Carcinogenicity:** No.

**Reproductive 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.

**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**

**Ecotoxicity (aquatic and terrestrial, where available):** Low, but has a BOD contribution.

**Component toxicity data:**

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

**Persistence and degradability:** Readily biodegradable.

**Bioaccumulative potential:** Low (degrades too rapidly)

**Mobility in soil:** Unknown

**Other adverse effects (such as hazardous to the ozone layer):** None known.

**13. Disposal considerations**

**Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:** Disposal should be in accordance with local, state or national legislation.

**14. Transport information**

**UN number:** Not applicable  
**UN proper shipping name:** Not applicable  
**Transport hazard class(es):** Not applicable  
**Packing group, if applicable:** Not applicable  
**Toxic Inhalation Hazard Zone:** No data available

**Environmental hazards (e.g., Marine pollutant (Yes/No)):** No data available

**Transport in bulk (according to Annex** No data available

II of MARPOL 73/78 and the IBC  
Code):

Special precautions which a user  
needs to be aware of, or needs to  
comply with, in connection with  
transport or conveyance either within  
or outside their premises:

Consult IMO regulations before transporting in bulk by ocean.

## 15. Regulatory information

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

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.

:

Chemical Name	CAS #	
No data available		

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

**Date of SDS preparation or last revision (mm-dd-yyyy):** 08-04-2023

**Supersedes:** 11-20-2022

**Revision Number:** 3

**Reason for revision:** New

**For product information, contact:** Ingredion Incorporated  
Customer Service: 1-800-713-0208

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