

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

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<b>1.1. Product identifier</b>	NOVATION Lumina 340
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>	food starch
<b>1.3. Details of the supplier of the safety data sheet</b>	The relevant Ingredion EMEA Company which invoices for the Product – please see Section 16
<b>E-Mail Address</b>	elizabeth.fawkes@ingredion.com
<b>1.4. Emergency telephone number</b>	EMERGENCY TELEPHONE: +1 703-741-5970 / 1-800-424-9300

## SECTION 2: Hazards identification

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### 2.1. Classification of the substance or mixture

<b>Classification according to Regulation (EC) No 1272/2008 [CLP]</b>	This product is not classified as hazardous according to (EC) No. 1272/2008
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### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008 [CLP]

<b>Signal Word</b>	No Signal Word needed.
<b>Hazard Statements</b>	No Hazard Statement needed.
<b>Supplemental Hazard information (EU)</b>	No Supplemental Hazard Information available

### 2.3. Other hazards

<b>DUST</b>	Nuisance dust with a possibility of dust explosion.
<b>EYE</b>	Particulates may scratch eye surfaces and cause mechanical irritation.
<b>SKIN CONTACT</b>	Low order of toxicity.
<b>INHALATION</b>	This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m <sup>3</sup> .
<b>INGESTION</b>	No hazard in normal industrial use.

## SECTION 3: Composition/information on ingredients

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### 3.1. Substances

Not Applicable

### 3.2. Mixtures

Chemical Name	Percentage (%)	CAS number	Reach Registration No.	Classified in accordance with (EC) No. 1272/2008

This product is not classified as hazardous				
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See Section 16 for full text of hazard statements.

## SECTION 4: First aid measures

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### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove patient from exposure.
<b>Eye contact</b>	Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. If symptoms develop, obtain medical attention.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	None required.
<b>Self-protection of the first aider</b>	

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Symptom</b>	Possible physical irritant from dust particles.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes to the physician</b>	No further first aid information is available.
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## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

Suitable extinguishing media	CO2 Dry Chemical Foam Water Fog
Unsuitable Extinguishing Media	None known.

### 5.2. Special hazards arising from the substance or mixture

Fire and/or Explosion Hazards	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.

### 5.3. Advice for firefighters

Fire Fighting Methods and Protection	No special procedures are required.
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## SECTION 6: Accidental release measures

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### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Non-emergency personnel should be kept clear of the area.
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For emergency responders Use personal protective equipment as required.

**6.2. Environmental precautions**

Not available

**6.3. 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.

**6.4. Reference to other sections**

See Section 8 for appropriate personal protective equipment. See Sections 2 and 7 for additional information on hazards and precautionary measures.

**SECTION 7: Handling and storage**

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**7.1. Precautions for safe handling**

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

**7.2. Conditions for safe storage, including any incompatibilities**

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

Special Sensitivity:

No special sensitivity.

Sensitivity to Mechanical

No

Impact:

Sensitivity to Static

Yes

Electricity:

Other precautions:

Use care to minimise dust generation in normal use conditions. Avoid dispersing the powder in the air. Prevent build-up of powder on surfaces.

Materials to avoid:

None known.

**7.3. Specific end use(s)**

food starch

**SECTION 8: Exposure controls/personal protection**

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**8.1. Control parameters**

**Occupational Exposure Limits (TWA)**

COMPONENT	EXPOSURE LIMITS	EC INDICATIVE OCCUPATIONAL EXPOSURE LIMIT VALUES
Starch	10 mg/m <sup>3</sup> TWA (total inhalable) 4 mg/m <sup>3</sup> TWA (respirable)	Not available

**8.2. Exposure controls**

General.

**Appropriate Engineering controls**

**Personal protective equipment**

- Eye protection:

Wear safety glasses. Personal eye protection should conform to

	EN 166.
<b>- Skin protection:</b>	
- Hand protection:	Gloves are recommended due to possible irritation. Gloves should conform to EN 374.
Other skin protection:	Uniforms, coveralls, or a lab coat should be worn.
<b>Respiratory Protection:</b>	Use approved dust mask.
	Dust masks should conform to EN 149.
<b>Other Protective Equipment:</b>	Wash before eating, drinking, or using toilet facilities.
<b>General Hygiene Conditions:</b>	Not available
<b>- Thermal hazards</b>	Not available
<b>Environmental exposure controls</b>	Not available

## **SECTION 9: Physical and chemical properties**

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### **9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Powder.
<b>Colour</b>	white
<b>Odour</b>	Starch odour.
<b>Odour threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting point / Freezing point (°C)</b>	Not available
<b>Initial boiling point and boiling range</b>	Not available
<b>Flash point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper Flammable/Explosive Limit, % in air</b>	No data available
<b>Lower Flammable/Explosive Limit, % in air</b>	No data available
<b>Vapour pressure at 50°C (kPa)</b>	Not available
<b>Vapour density</b>	Not available
<b>Relative Density</b>	Not available
<b>Relative Density at 20° C</b>	No data available
<b>Solubility(ies)</b>	Soluble
<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not determined.
<b>Viscosity</b>	Not available

**Explosive Properties** Not available  
**Oxidising Properties** Not applicable

## 9.2. Other information

**Solids** Not available  
**Volatiles** None  
**Volatile Organic Compounds** Not available

## SECTION 10: Stability and reactivity

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**10.1. Reactivity** Not expected to be reactive  
**10.2. Chemical stability** Material is stable under normal temperatures and pressures.  
**10.3. Possibility of hazardous reactions** Hazardous polymerization will not occur.  
**10.4. Conditions to avoid** None known.  
**10.5. Incompatible materials** None known.  
**10.6. Hazardous decomposition products** This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

## SECTION 11: Toxicological information

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### 11.1. Information on toxicological effects

**Acute toxicity;**  
Not available

**Skin corrosion/irritation;**  
Low order of toxicity.  
Based on available data, the GHS classification criteria are not met.

**Serious eye damage/irritation;**  
Particulates may scratch eye surfaces and cause mechanical irritation.  
Based on available data, the GHS classification criteria are not met.

**Respiratory or skin sensitization;**  
Not available

**Germ cell mutagenicity;**  
Not available

**Carcinogenicity;**  
Not available

**Reproductive toxicity;**  
Not available

**STOT-single exposure;**  
Not available

**STOT-repeated exposure;**  
Not available

**Aspiration hazard;**  
Not available

## SECTION 12: Ecological information

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<b>12.1. Toxicity</b>	Low, but has a BOD contribution.
<b>12.2. Persistence and degradability</b>	Readily biodegradable.
<b>12.3. Bioaccumulative potential</b>	Unknown.
<b>12.4. Mobility in soil</b>	Unknown.
<b>12.5. Results of PBT and vPvB assessment</b>	Not available
<b>12.6. Other adverse effects</b>	Contributes to effluent BOD.
<b>12.7. Additional Information</b>	Not available

## SECTION 13: Disposal considerations

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### 13.1. Waste treatment methods

<b>Waste Disposal Methods:</b>	Waste disposal should be in accordance with existing Community, National and local regulations.
<b>Empty Container Warnings:</b>	Not needed.

## SECTION 14: Transport information

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<b>IATA CLASSIFICATION</b>	Not classified as dangerous.
<b>14.1. UN number</b>	Not Applicable
<b>14.2. UN proper shipping name</b>	Not Applicable
<b>14.3. Transport hazard class(es)</b>	Not Applicable
<b>14.4. Packing group</b>	Not Applicable

**IMDG CLASSIFICATION** Not classified as dangerous.

**14.1. UN number** Not Applicable

**14.2. UN proper shipping name** Not Applicable

**14.3. Transport hazard class(es)** Not Applicable

**14.4. Packing group** Not Applicable

**14.1. UN number** Not Applicable

**14.2. UN proper shipping name** Not Applicable

**14.3. Transport hazard class(es)** Not Applicable

**14.4. Packing group** Not Applicable

**14.5. Environmental hazards** Not available

**14.6. Special precautions for user** Not available

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not available

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EINECS** Unknown.

**SPECIFIC PROVISIONS** Not available

**15.2. Chemical safety assessment** No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other information

**Abbreviations and acronyms** No data available

**Key literature references and sources for data** No data available

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Not available	Not available

**Section 3 H Phrase(s)** Not available



# SAFETY DATA SHEET

NOVATION Lumina 340

13-03-2020

**For regulatory information, Contact:**

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**Changes since previous issue**

Section 1 Section 16

Products are manufactured in accordance with EU Law, unless expressly agreed to otherwise, in writing, by the relevant Ingredion company referred to below. The information on the safety data sheets is provided for the purposes of a general health and safety assessment by an industrial user (the "User"). Reference should also be made by the User, to any other specific relevant local or national health, safety, environmental or other applicable legislation, including any import or export regulations relevant to the country in which the User operates - the User will need to check this information for itself. The information provided by the relevant Ingredion company referred to below, does not constitute indication of suitability for specific uses, nor is it legal advice given to the User.

This document is issued on behalf of the Ingredion EMEA Company which is the Supplier invoicing for the Product. The respective details of each of the relevant Supplier companies are as follows:

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